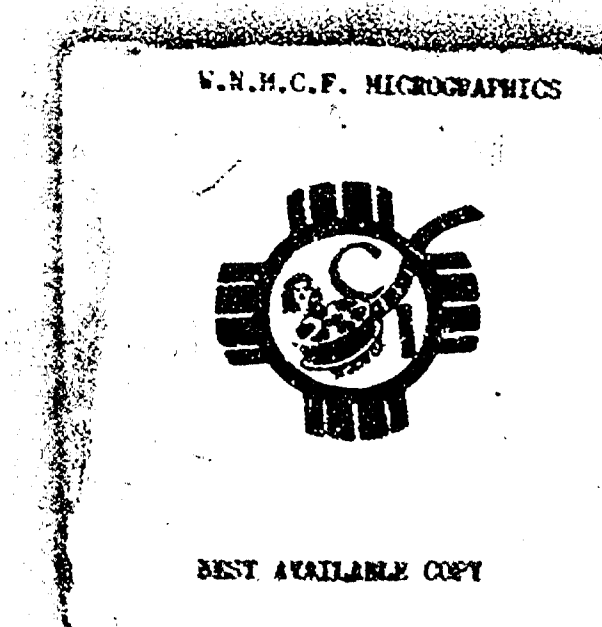
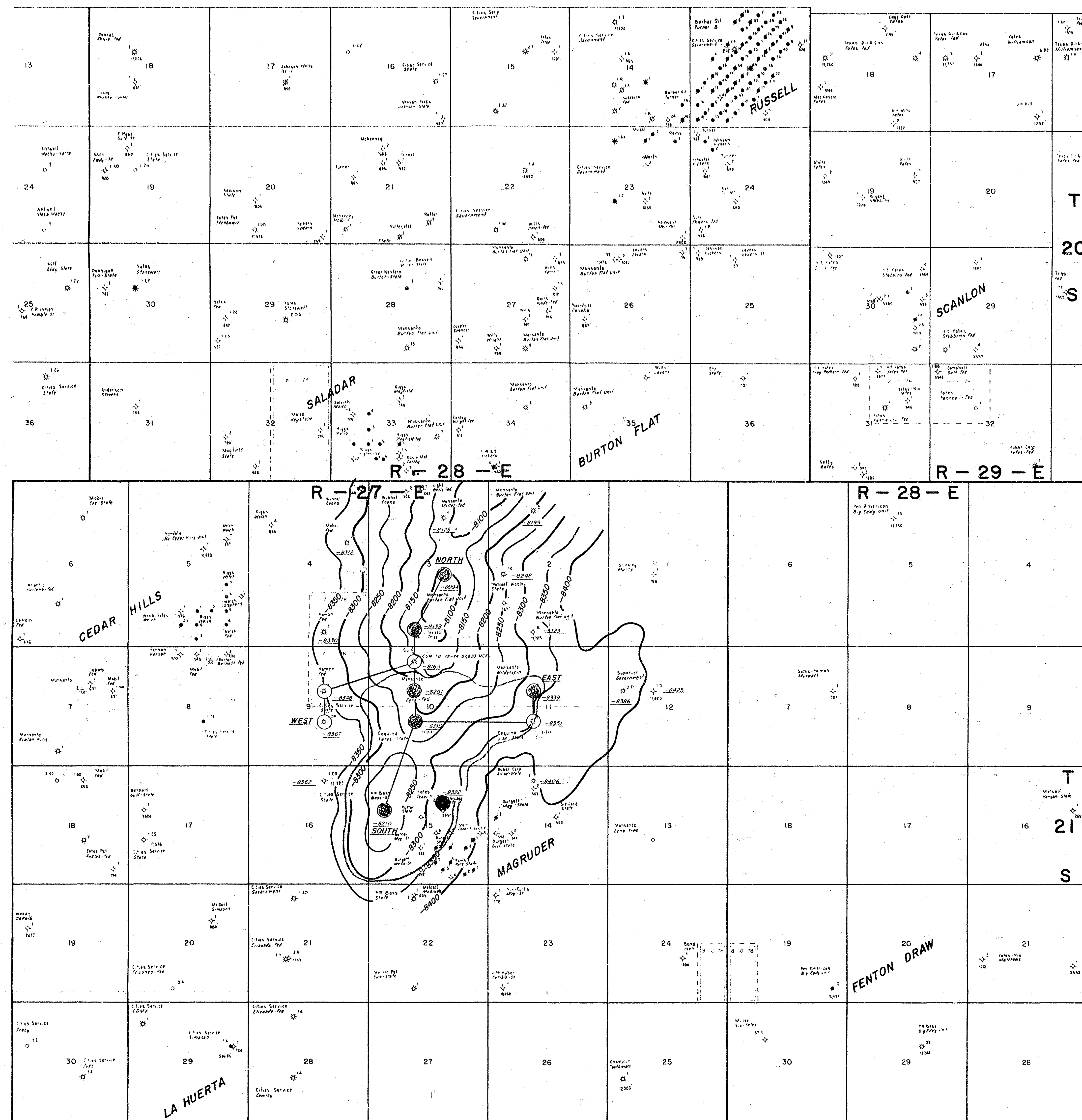


Case No
5811

Large Exhibits

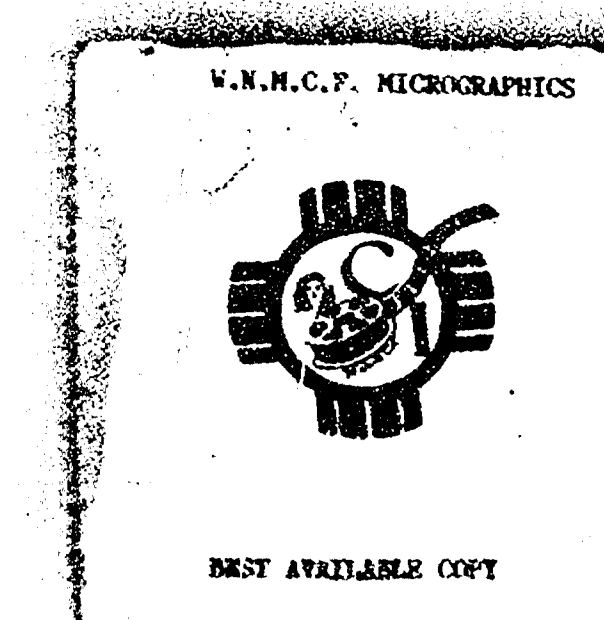


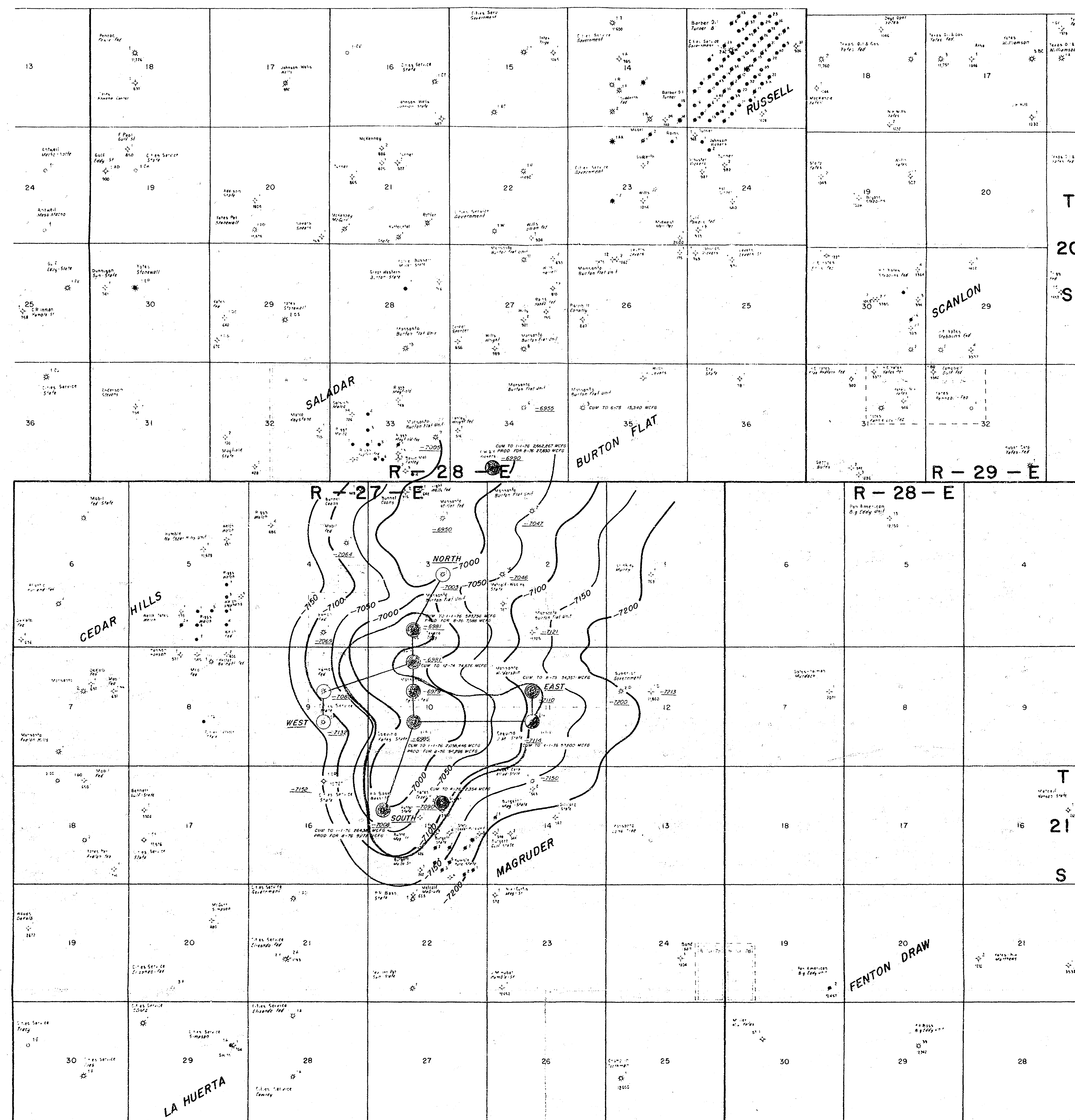


BURTON FLAT FIELD AREA
EDDY COUNTY, NEW MEXICO
SCALE: 1" = 2000'

CONT. HOR.: BASE LOWER MORROW MASSIVE SAND
 CONT. INT.: 50'
 MORROW PROD.

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 Exhibit No. 5811
 CASE NO. 5811





BURTON FLAT FIELD AREA

EDDY COUNTY, NEW MEXICO

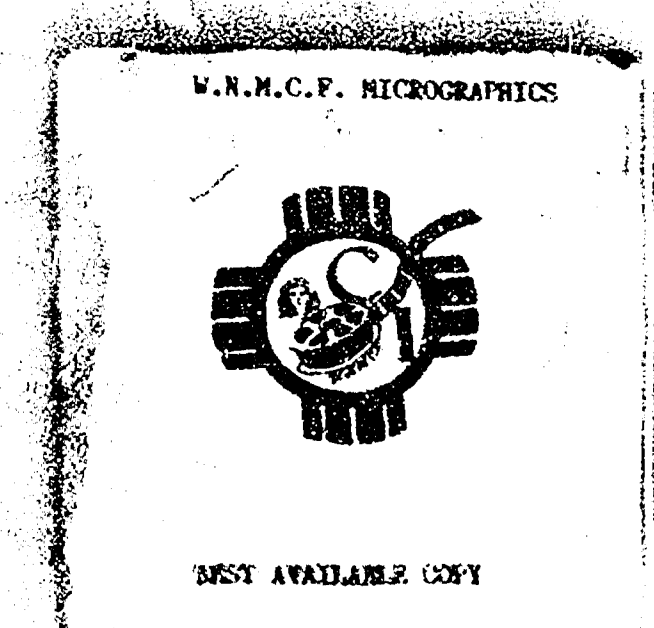
SCALE: 1" = 2000'

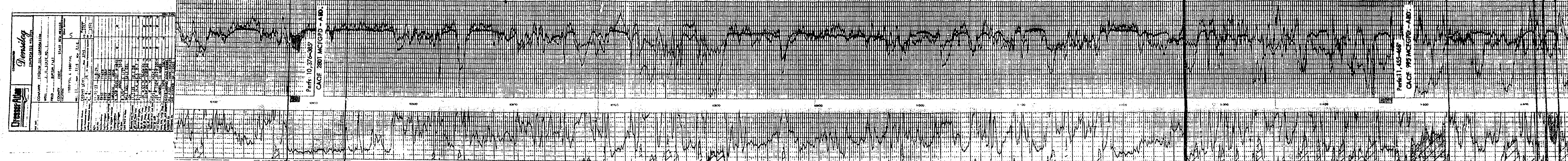
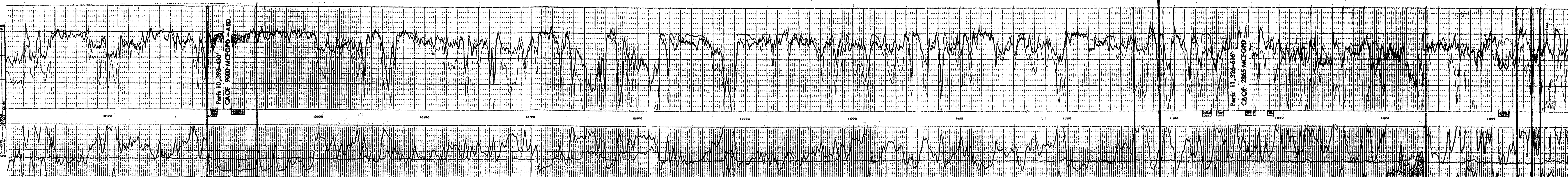
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 5811

CONT. HOR.: TOP STRAWN PAY

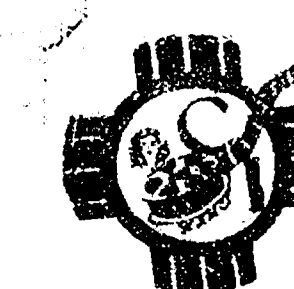
CONT. INT.: 50'

STRAWN PROD.



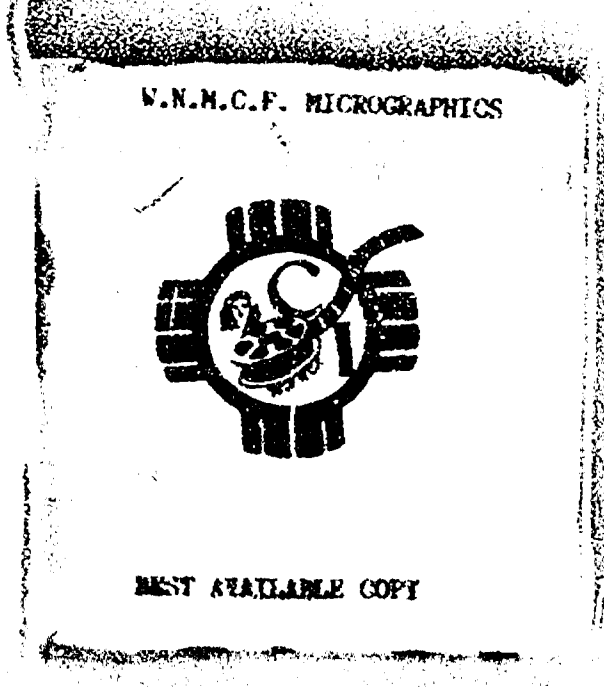
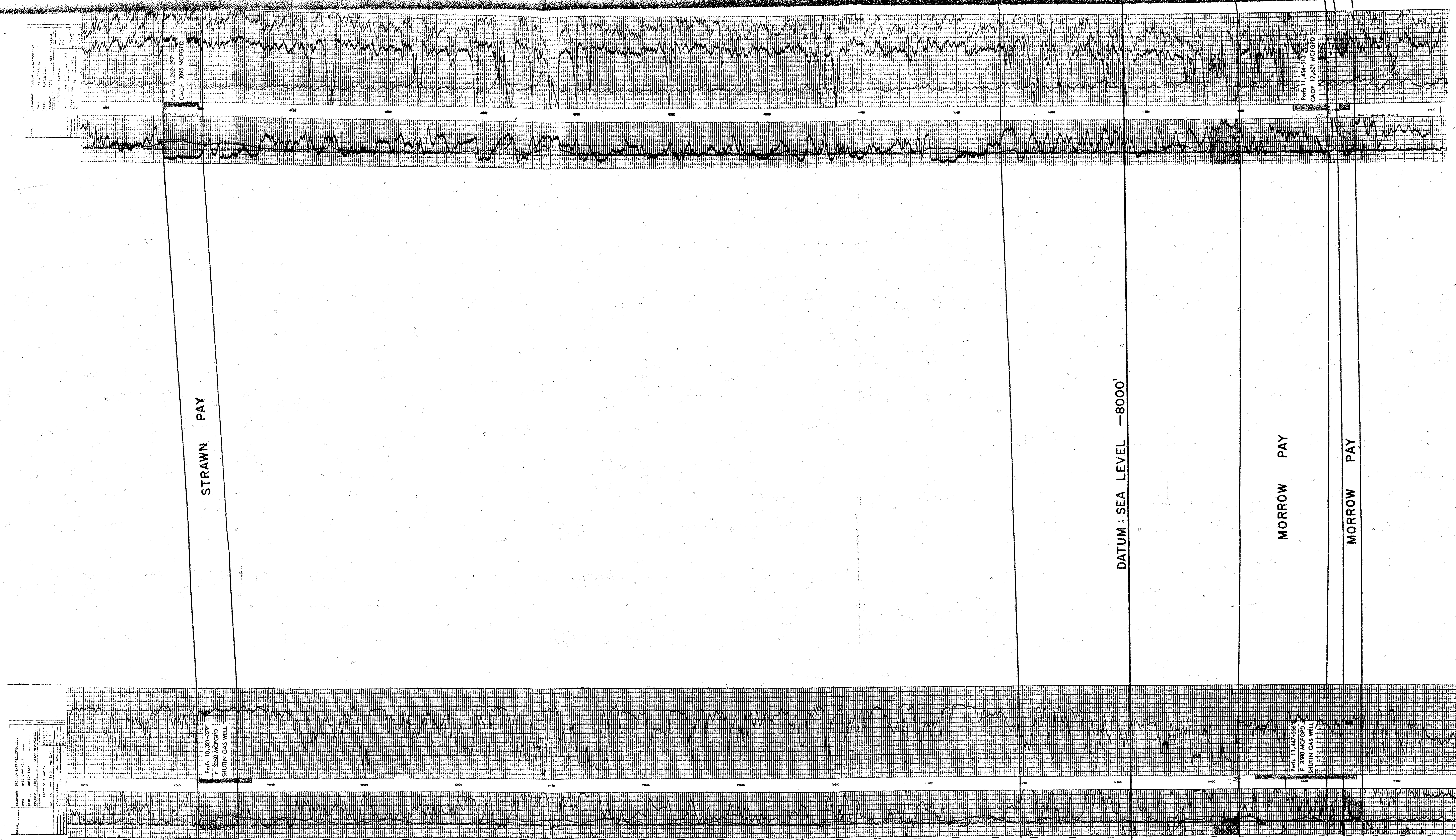
[illegible]

MORROW PAY

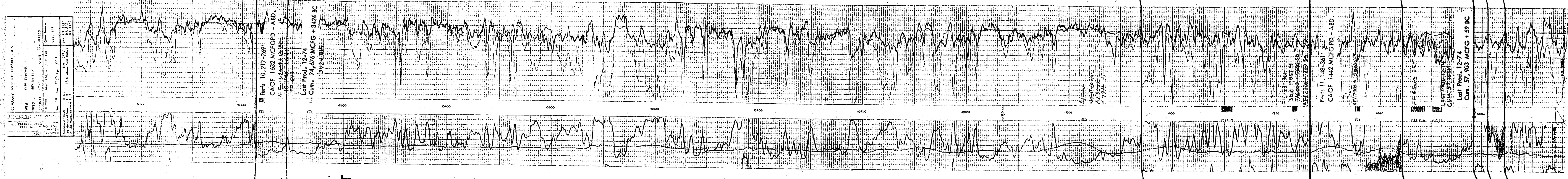
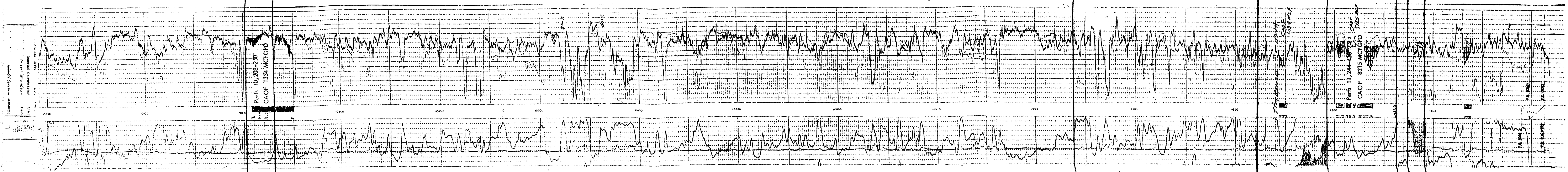


BEST AVAILABLE COPY

SOUTH

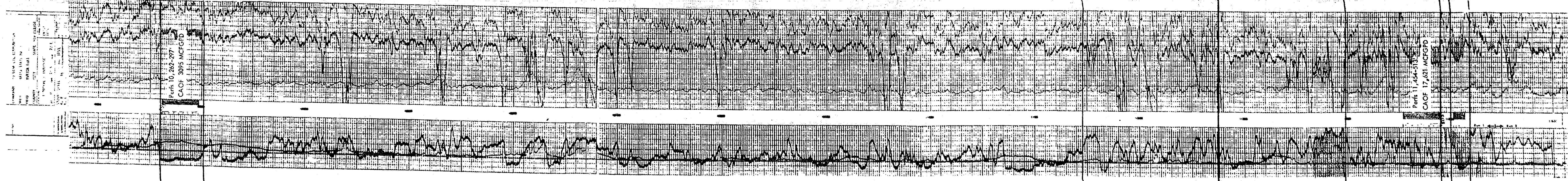
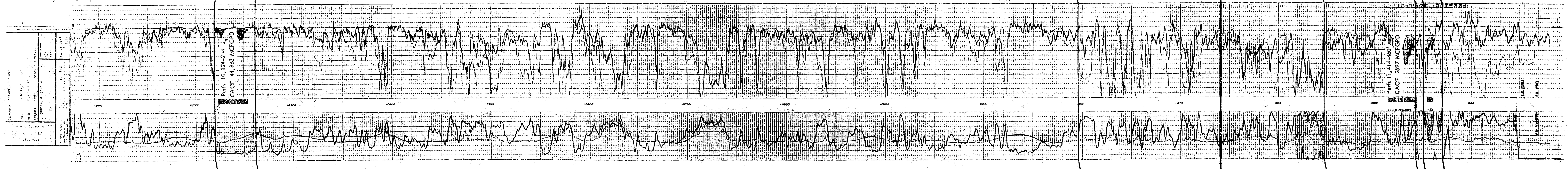


BEST AVAILABLE COPY



STRAWN
POR - PERM.
PINCH-OUT

MORROW
POR - PERM.
PINCH-OUT

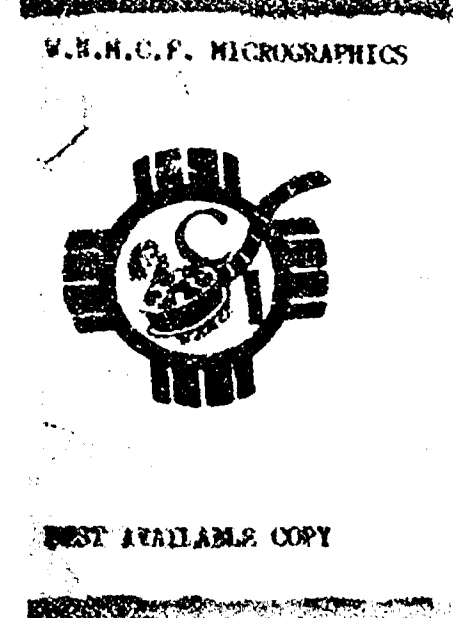


STRAWN PAY

SEA LEVEL -8000'

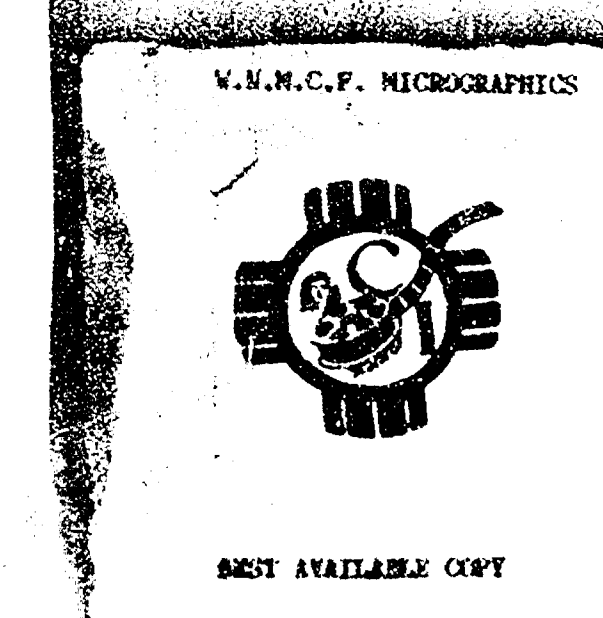
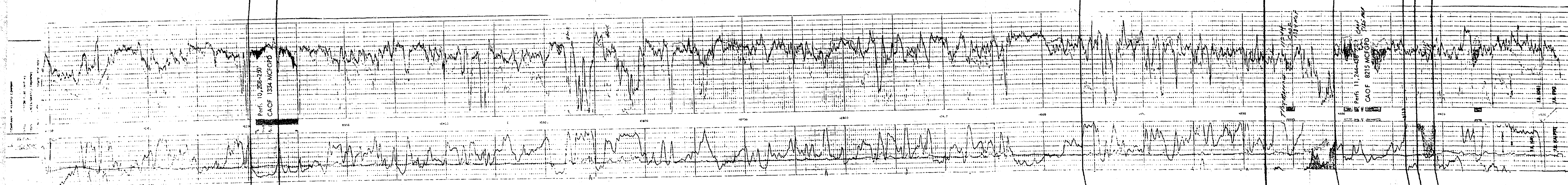
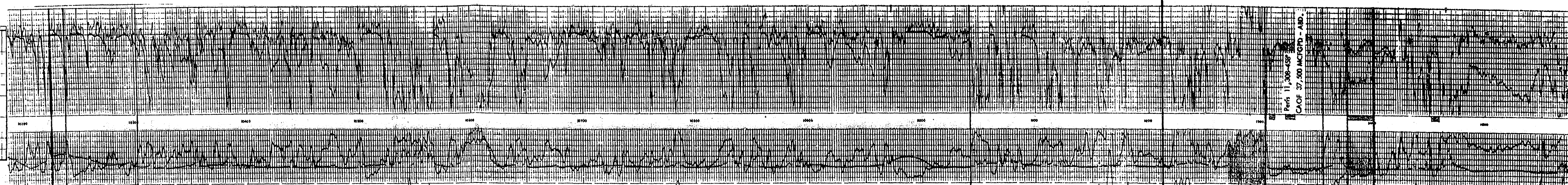
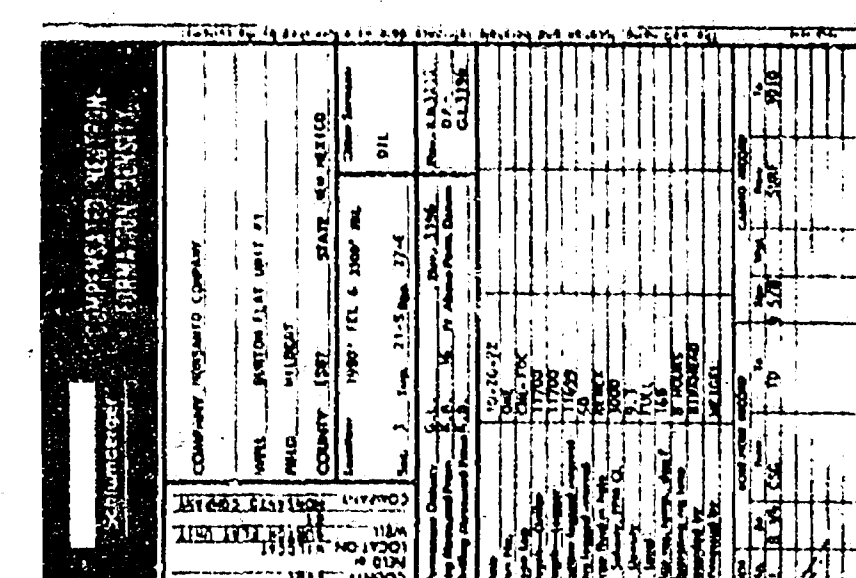
OW PAY

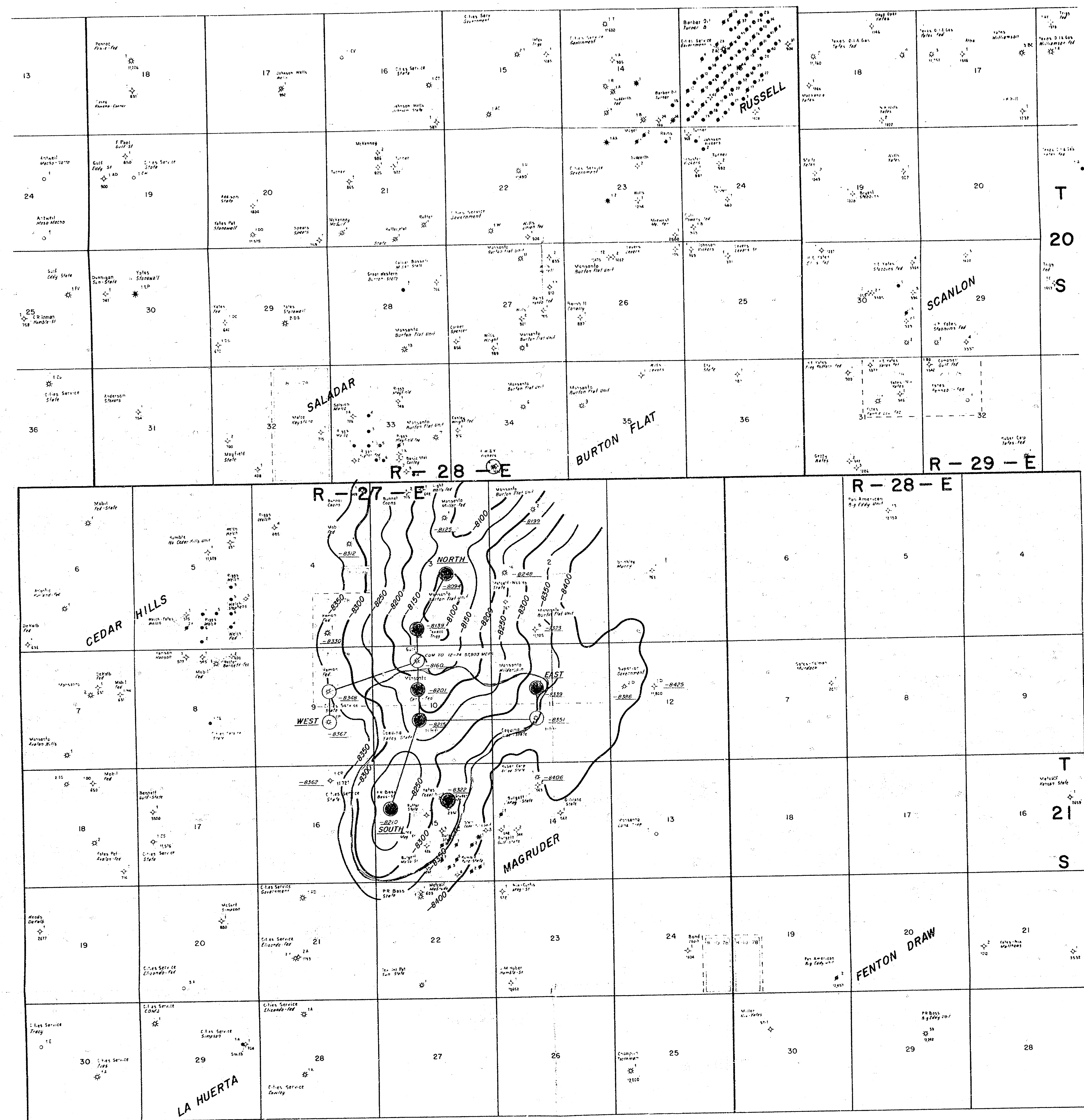
W PAY



BEFORE EXAMINER NUTTER
FEDERAL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 5811

NORTH





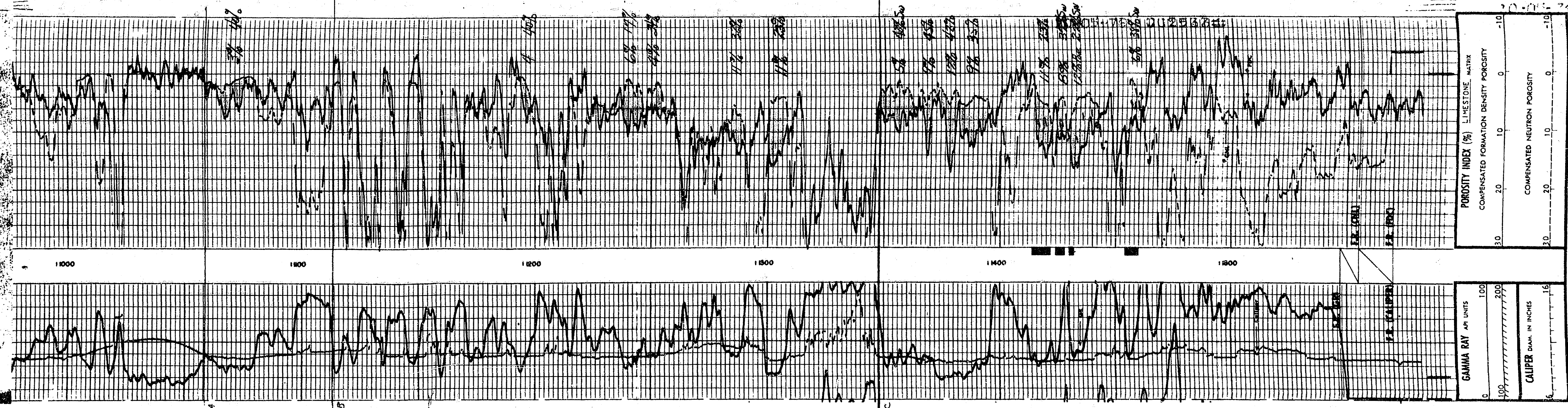
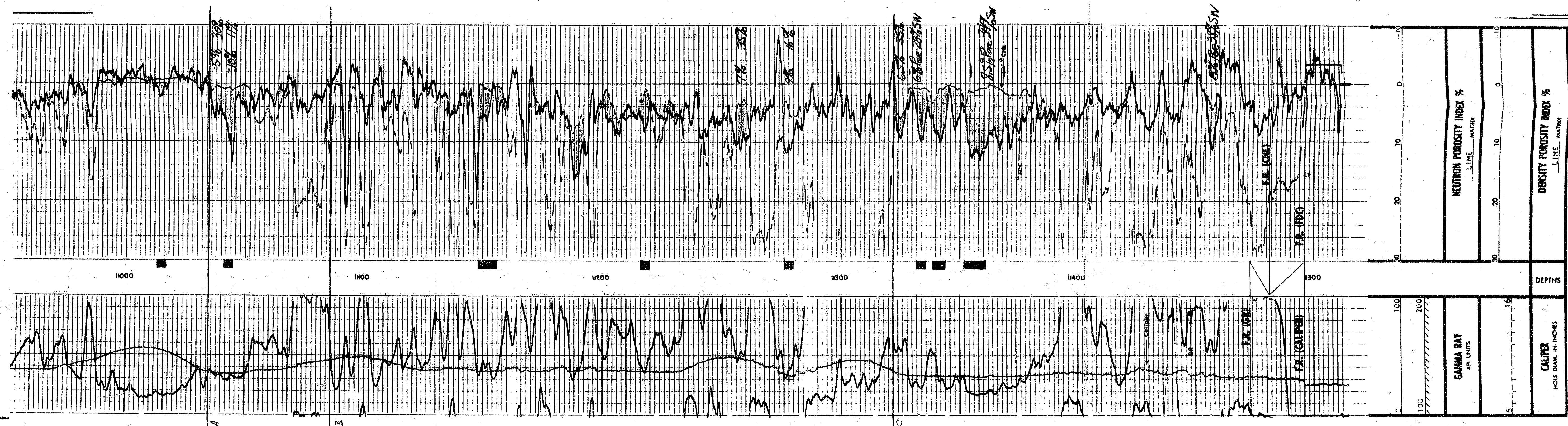
BURTON FLAT FIELD AREA
 EDDY COUNTY, NEW MEXICO
 SCALE: 1" = 2000'

CONT. HOR.: BASE LOWER MORROW MASSIVE SAND
 CONT. INT.: 50'

● MORROW PROD.

Cogline Exhibit 1
 Case 5811



[illegible][illegible]

INITIAL COLLECTION

6-11-73: Perf. 1103-017, 1104-045 &4. SF
Acid. of 1000 gal.

6-13-73: Acid. of 1000 gal. Flowed 77 MCFD

7-02-73: Perf. 11148-456, 11216-220, 11279-280,
11372-376, 11399-344, 11552-362

7-13-73: Overnight SIPP 450 PGL

7-16-73: Acid. perf. 11352-46 w/3000 gal.
Flowed 33 MCFD.

7-17-73: Acid. all borrow perf. of 5000 gal.
Flowed 33 MCFD.

7-26-73: Re perfed 11372-356, 11399-344.

7-27-73: Reported 11275-321. Per 14,000
gal. + 19,000 gal. and Shell washers.

7-30-73: Flowed 316 MCFD.

8-04-73: Flowed 416 MCFD, 6 MCFD, 21/64".
FPP 200

8-14-73: CR log indicated communication down
from 11510 on outside of 7 strings.

8-22-76: Flowed 482 MCFD, 34/64", FPP 225.

8-31-76: Taking Perennial

9-07-76: CAMP 1442 MCFD

MONOTER

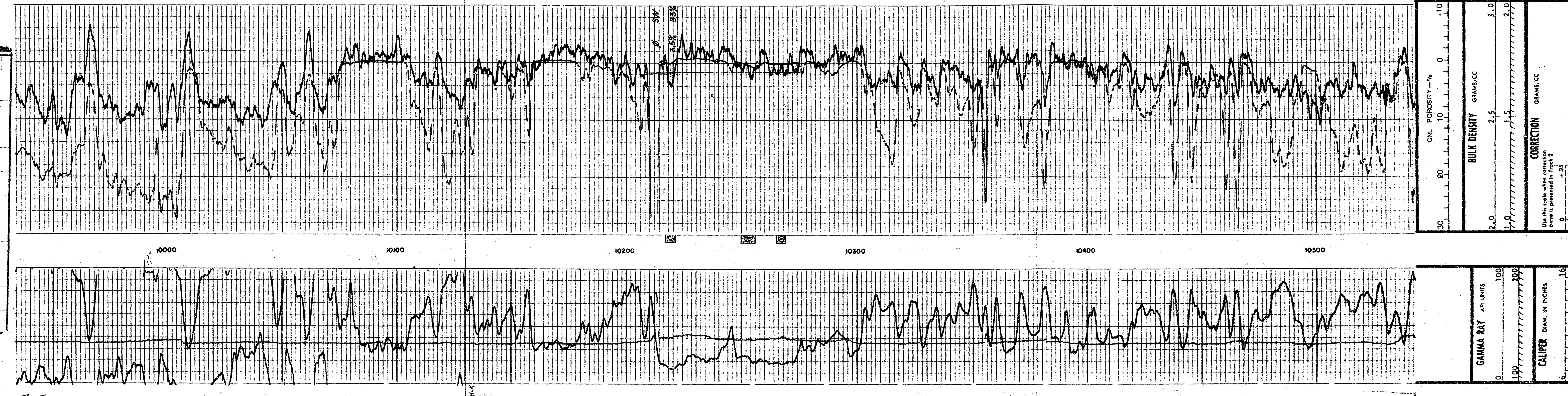
Object: repair of 11273-362

2-27-73: to 3-27-73: Patching on prod. equip.

5-27-73: Performed 11277-281, 11376-358, 11399-344,
355-362

6-03-73: Flowed 300 MCFD, 10 gal. SIPP 2100 PGL

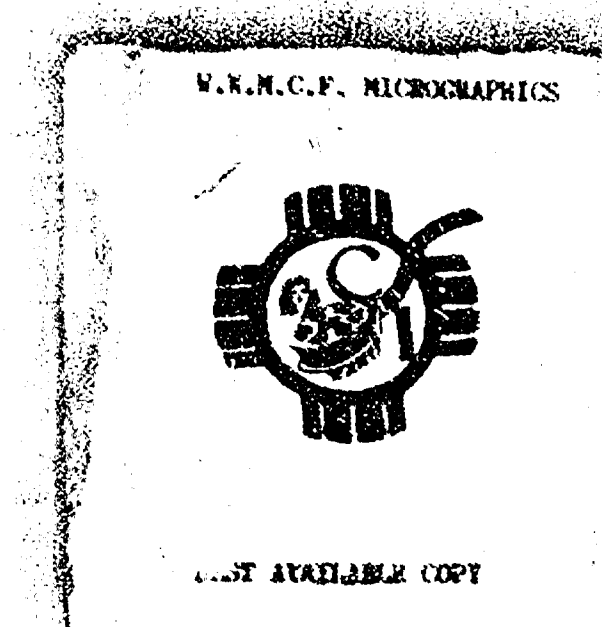
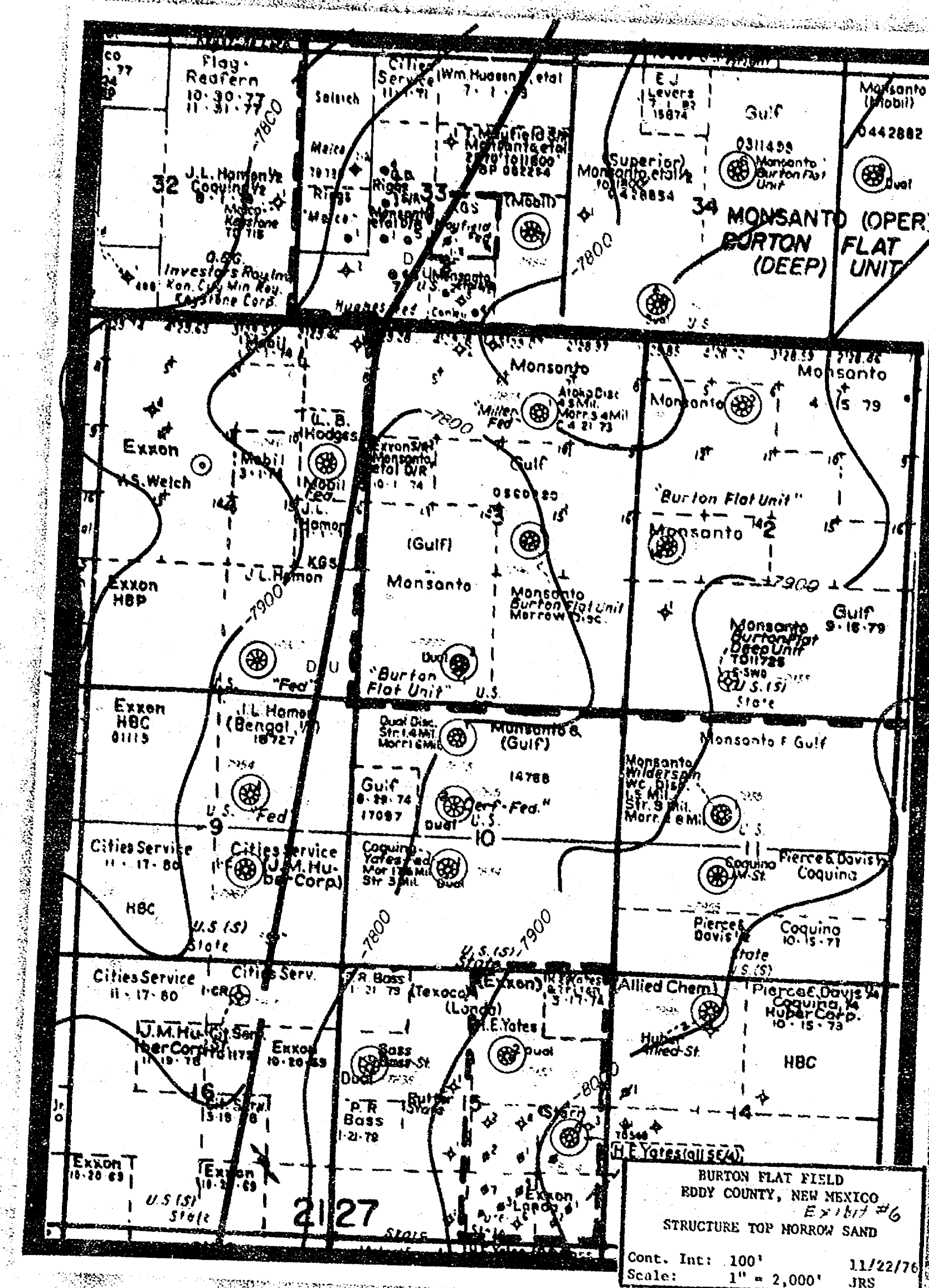
7-24-76: Flowed 193 MCFD.

[illegible]

Test #1: 10303 - 10287: 70 to 85 min., CTS 3 min.
 Mass rate 6 lb. WSPD plus 28 wpp, 1/4" oil, Saz.
 Churn rec. 6 lb. at 1200 psi & 500 cc oil; PTP
 1350 psi, 1375 585 - 1517
 60 min. PTP 585 - 1517
 60 min. PTP 585 - 1517
 60 min. PTP 585 - 1517
 2 hr. SS14 2887
 Perf Steam 10224 - 254
 Acidize with 3000 gal. IS-30
 10207 141 863 wppn, 3/4" wppn

STAMP:	INITIAL CORRECTION
6-8-73:	Rev. 1031-221, 1036-490 & SF 1031-221, 1036-490 & SF 48 H. RTD 3800 T4. Flowed 471
7-12-73:	Overweight LTP 3800 P4. Flowed 471
8-21-73:	Flowed 3800 MPTD. A. RTD in 14 hrs 214
	FTG 600
8-31-76:	Take 1031 MPTD.
9-4-76:	CONF 1031 MPTD.
	NOXOFER
	9/4/76, receipt 6 1031-221
	2-27-76 to 2-27-73: Flaking sec. prod. equiv.
3-3-73:	Rev. 1031-221, 1036-504, 1026-240 4/SF
4-10-75:	Free in 3 sapes of 32000 gal + 20000 7 and Flowed 831 MPTD.
4-10-75:	Acid of 32000 gal. equiv.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Albert EXHIBIT NO. *4*
CASE NO. *5811*



S

N

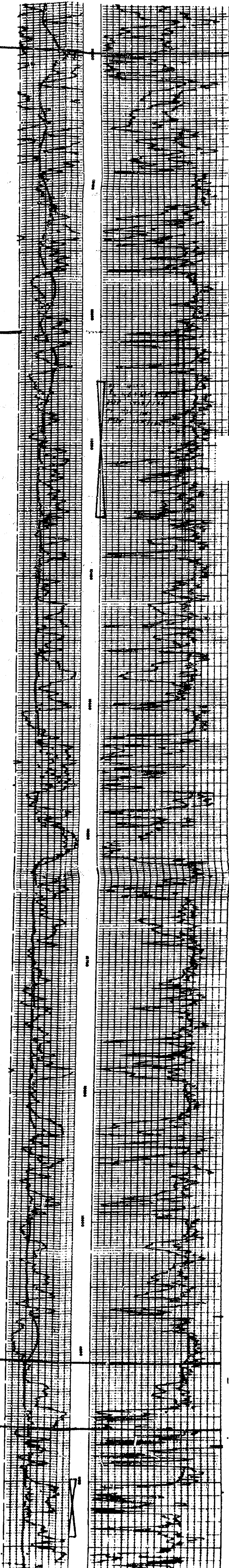
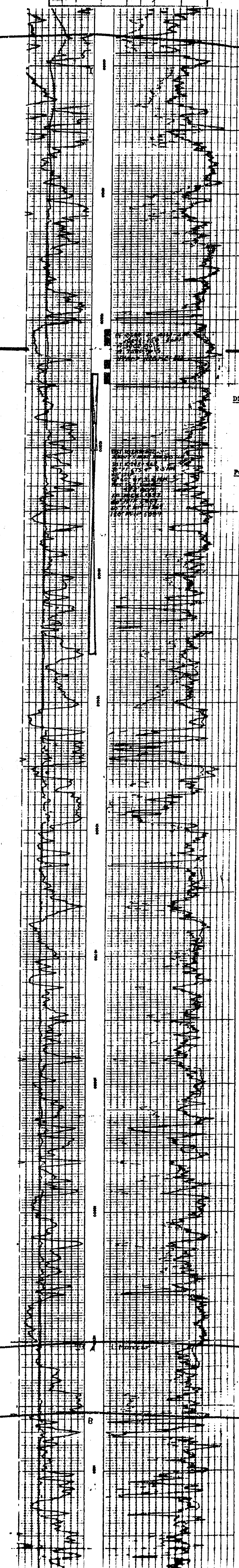
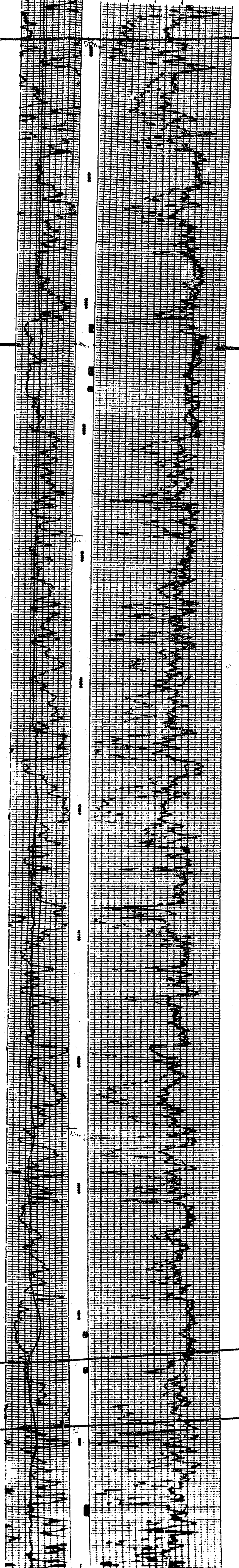
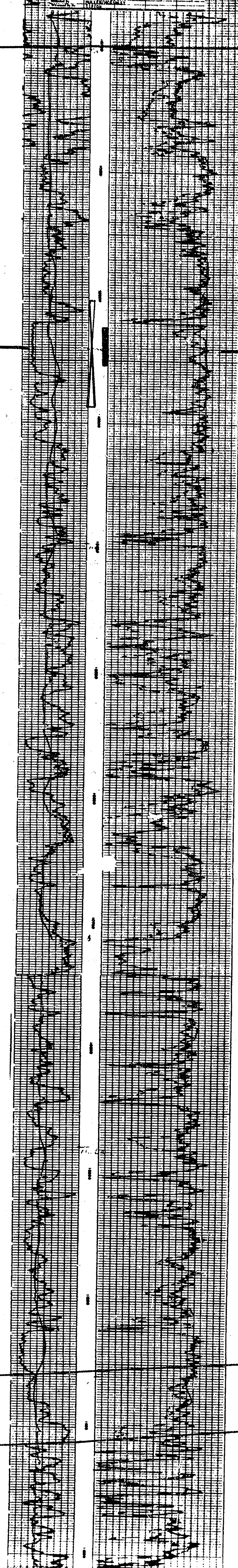
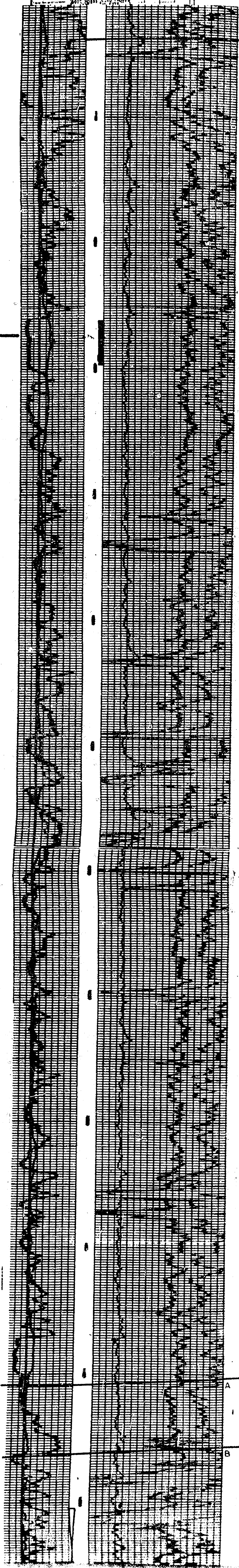
Dresser-Ailes	
Density	
COMPANY	GEORGE W. DRESSER
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000

Dresser-Ailes	
Density	
COMPANY	GEORGE W. DRESSER
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000

Dresser-Ailes	
Density	
COMPANY	GEORGE W. DRESSER
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000

Dresser-Ailes	
Density	
COMPANY	GEORGE W. DRESSER
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000

Dresser-Ailes	
Density	
COMPANY	GEORGE W. DRESSER
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000
WELL	W-1
DATE	10/1/50
TIME	10:00
DEPTH	1000



-7000'

-7000'

-7000'

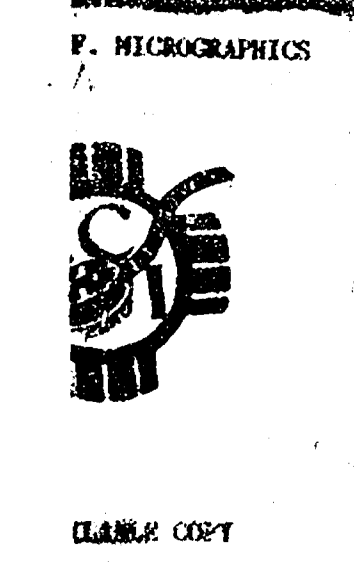
DET 10243-462, op 1 hr GTS & min 8
1,810 MCFD, SFP 2248, inc to 3,621
MCFD, SFP 500-650, rec 153' cond A
653' rec and GOR
1 hr 151P 5089, FP 1111-1369
2 hr 151P 5089

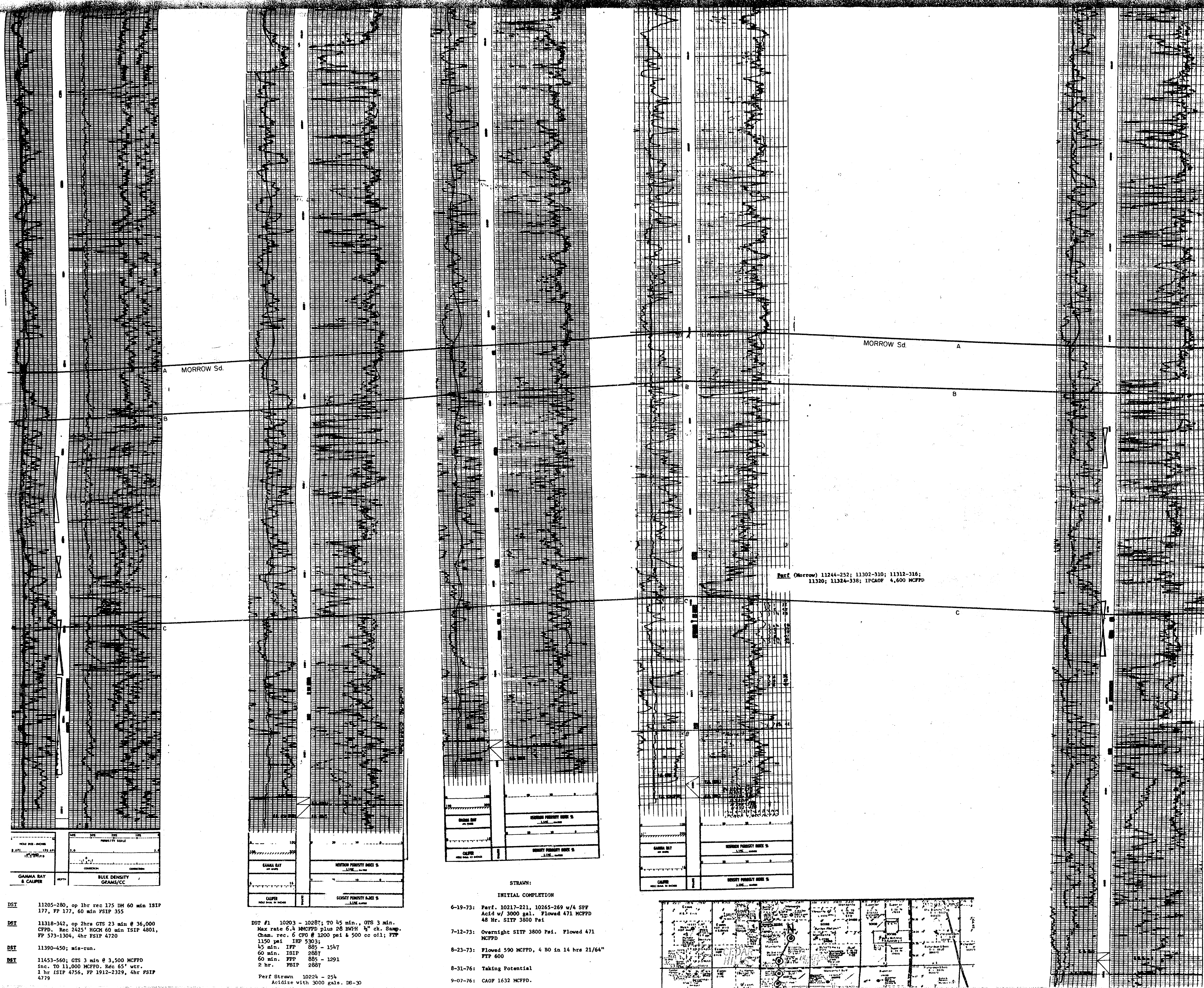
DET (Strawn) 10208-20; 10232-228; 10242-250;
2SFP A/3000 gals A/7500 gals
1P/CAOP 1120 MCFD

DET (Strawn) 10230-265; op 40 min (1500' WD)
rec. 10 x 650' GOR 1hr 151P 1423,
FP 1034-1080 1 hr 151P 1240.

MORROW Sd

MORROW Sd





LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

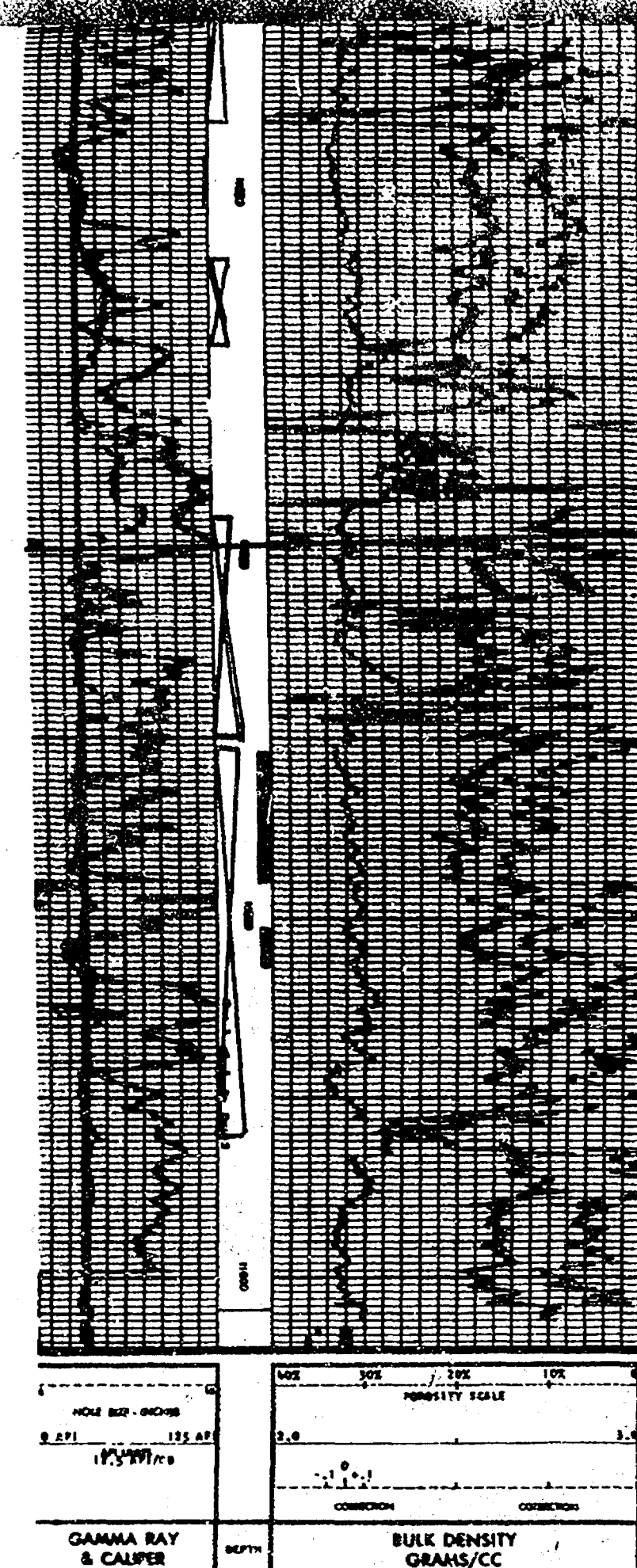
11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

LOGS
GAMMA RAY
& CAPER
RESISTIVITY
GRAMMA/CC

11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

PERF
11205-280, op 1hr rec 175 DM 60 min ISIP
177, PP 177, 60 min PSIP 355
11318-342, op 2hrs CTS 23 min @ 36,000
CPD. Rec 2425' NGC 60 min ISIP 4001,
PP 573-1304, 4hr PSIP 4720
11390-450; min-run.
11453-560; CTS 3 min @ 3,500 MCFD
inc. TO 11,000 MCFD. Rec 65' wtr.
1 hr ISIP 4756, PP 1912-2329, 4hr PSIP
4779

MICROGRAPHICS
BEST AVAILABLE COPY



DST 11205-280, op 1hr rec 175 DM 60 min ISIP 177, PP 177, 60 min PSIP 355

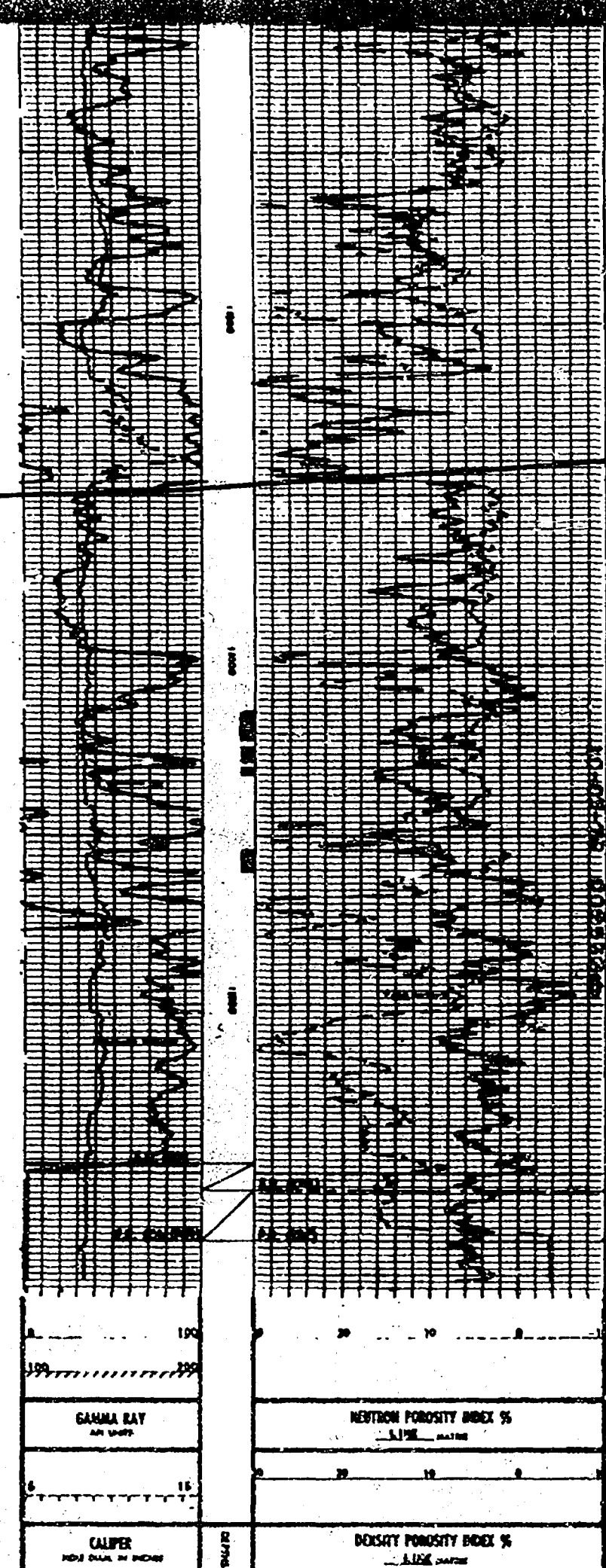
DST 11318-342, op 2hrs CTS 23 min @ 36,000 CFPD. Rec 2425' HCHN 60 min ISIP 4801, PP 373-1304, 4hr PSIP 4720

DST 11390-450; min-run.

DST 11443-560; CTS 3 min @ 3,500 MCFPD. Inc. TO 11,000 MCFPD. Rec 65' wrr. 1 hr ISIP 4756, PP 1912-2325, 4hr PSIP 4779

Perf 10262-297; A/150 gals IFCADP 3,095 MCFPD SIWHP 3761#

Perf 11458-90; 11503-13, IFCADP 17,621 MCF, SIWHP 3764#



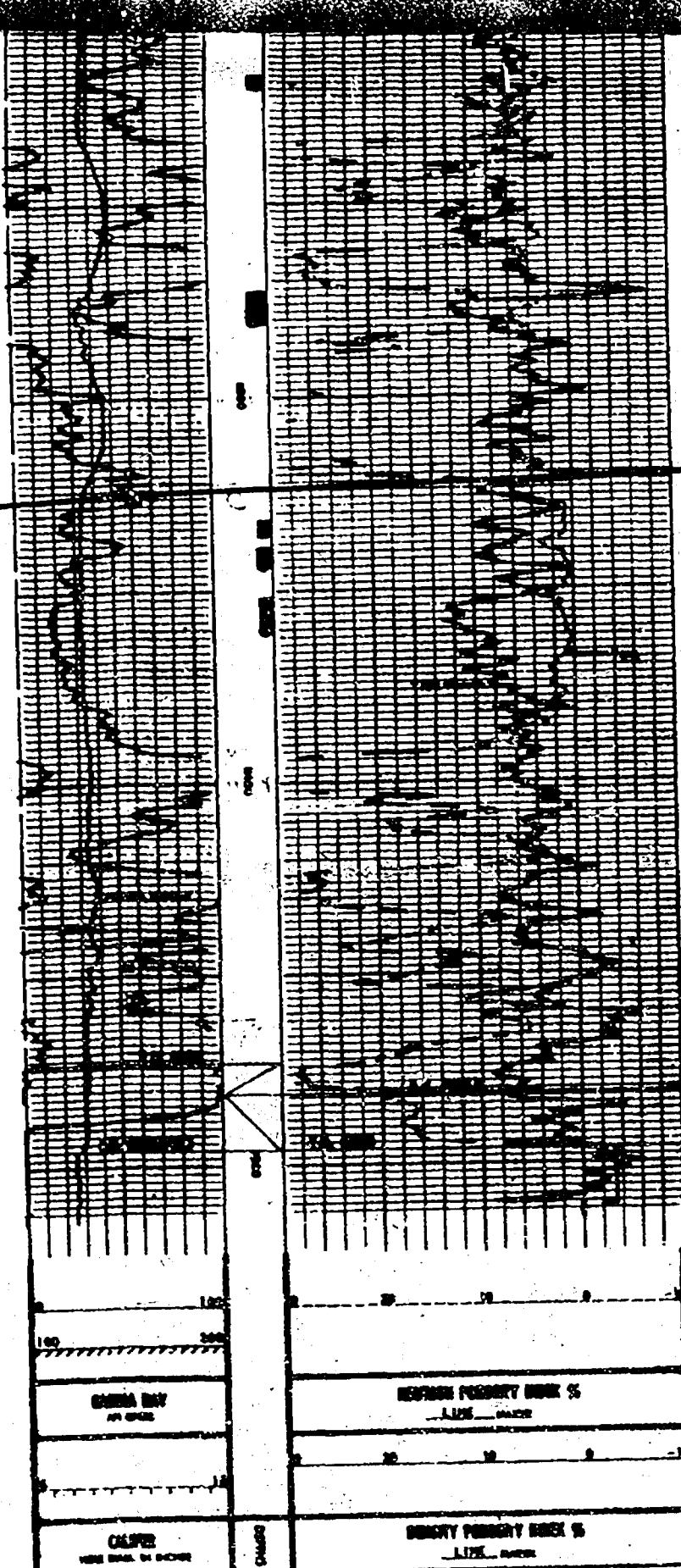
DST #1 10203 - 10287; TO 85 min., CTS 3 min. Max rate 6.4 MCFPD plus 28 BWPD w/ 4" ch. Pump. Chan. rec. 6 CFS @ 1500 psi & 500 cc oil; PIP 1150 psi ITP 5301, 15 min. ITP 889 - 1547, 60 min. ISIP 2887, 60 min. PIP 289 - 1291, 2 hr. PSIP 2887

Perf Strawn 10224 - 254 Acidize with 3000 gals. D8-30

CMDF 44,063 MCFPD w/ 7 BCPD

Perf Morrow 11414-422; 11424-428; 11430-432; 11434-440.

CMDF 2697 MCFPD



STRAWN

INITIAL COMPLETION

6-19-73: Perf. 10213-211, 10765-269 w/4 SFP Acid w/ 3000 gal. Flowed 471 MCFPD

7-12-73: Overnight SITP 3800 Psi. Flowed 471 MCFPD

8-23-73: Flowed 590 MCFPD, 4 HO in 14 hrs 21/64" FTP 600

8-31-76: Taking Potential

9-07-76: CMDF 1632 MCFPD.

WORKOVER

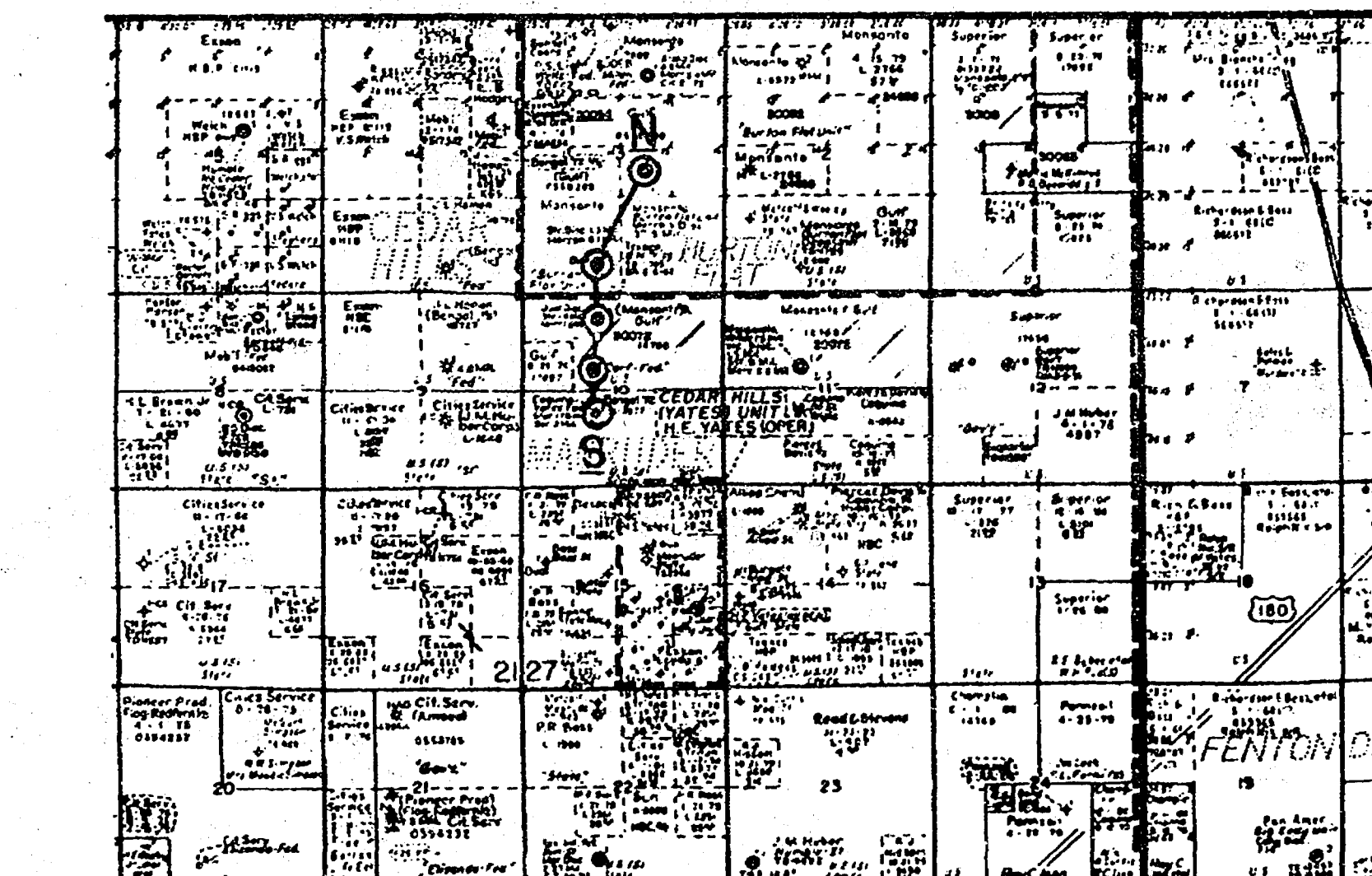
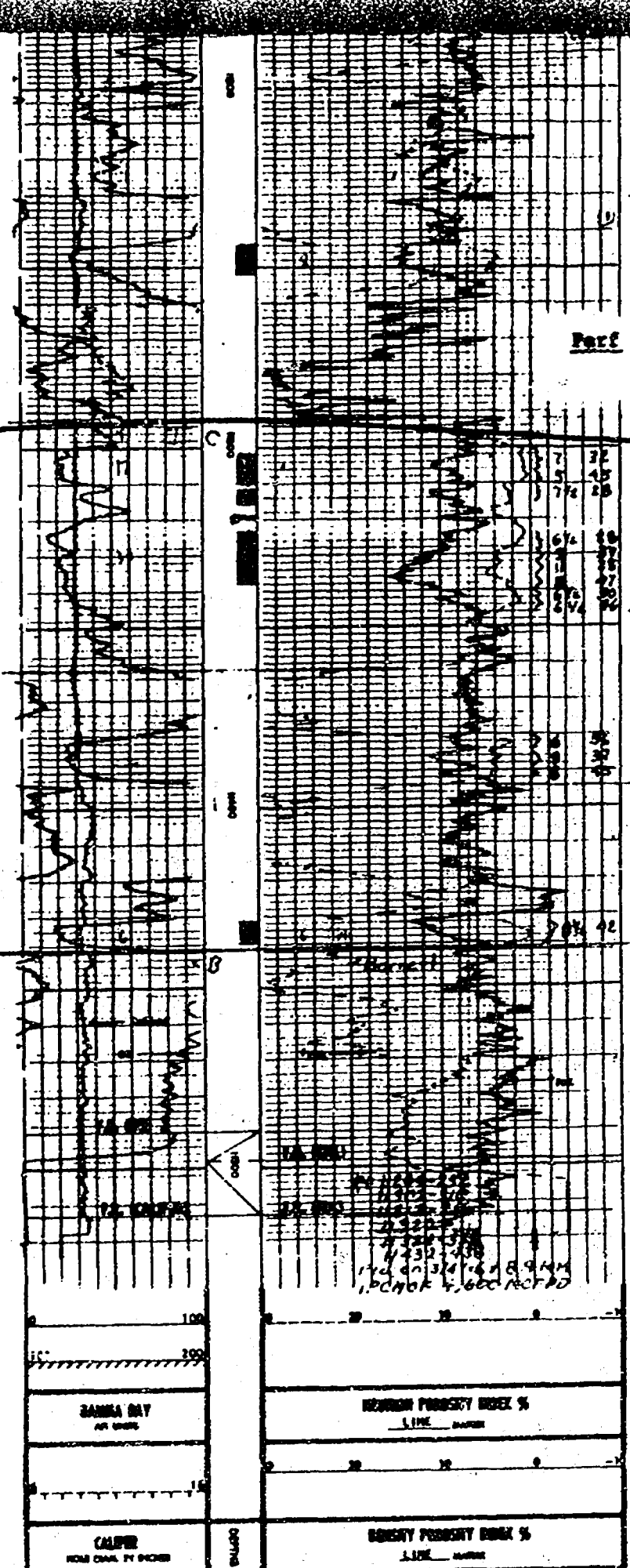
Object- reperf @ 10216-270

2-27-76 to 3-27-75: Fishing for prod. equip.

3-31-75: Perf. 10216-222, 10230-256, 10264-270 w/4 SFP

4-01-75: Frac in 3 stages w/ 32000 gal + 24000 # sand. Flowed 813 MCFPD.

4-10-75: Acid w/ 3000 gal. acid.



MORROW

INITIAL COMPLETION

6-11-73: Perf. 11013-017, 11041-045 w/4 SFP Acid w/ 1000 gal.

6-13-73: Acid w/ 3000 gal. Flowed 77 MCFPD

7-02-73: Perf. 11148-156, 11216-220, 11276-280, 11332-336, 11339-344, 11352-361

7-13-73: Overnight SITP 450 Psi.

7-16-73: Acid.perfs 11352-61 w/3000 gal.

7-17-73: Acid all Morrow perfs w/ 5000 gal. Flowing 33 MCFPD.

7-26-73: Re perfed 11332-336, 11339-344.

7-27-73: Reperfed 11275-281. Frac w/ 14,000 gal + 19,000 # sand w/ball sealers.

7-30-73: Flowed 316 MCFPD.

8-07-73: Flowing 416 MCFPD, 6 BWPD, 23/64", FTP 300

8-14-73: CR log indicated communication down from 11210 on outside of 7" string.

8-22-76: Flowed 482 MCFPD, 24/64", FTP 225

8-31-76: Taking Potential

9-02-76: CMDF 1442 MCFPD

WORKOVER

Object- reperf @ 11273-362

2-27-75 to 3-27-75: Fishing for prod. equip.

5-27-75: Perfed 11273-281, 11332-336, 11339-344, 352-362

6-03-75: Flowed 30 MCFPD, 15 hr. SITP 2100 Psi

7-24-76: Flowed 193 MCFPD.

Perf (Morrow) 11244-252; 11302-310; 11312-316; 11320; 11324-338; IFCADP 4,600 MCFPD

DST (Morrow) 11098-142; op 30 min (2000' wrr), rec 1910' wrr and 90' HCHN, 1 hr. ISIP 2977, PP 1244-1244, 84 min PSIP 3523.

DST (Morrow) 11290-350; op 7 hrs (2000' wrr), 9775 8 min, CTS 18 min, @ 7,777 MCFPD, 3/4" ch. SFP 3100-2500# rec 270' DM, 10 min ISIP 4693, PP 2968-3956, 6 hr PSIP 4681

Perf 11378-400; 11404-410; w/2 SFP.

Perf 11308-312; 11322-330; 11452-458, w/2 SFP IFCADP 37,500 MCF, SIWHP 3583

MONSANTO COMPANY
SOUTHWESTERN REGION
N-S Cross Section in
Burton Flat Field; Eddy Co., N.M.
DATUM Sea Level (-7000')
HORIZ. SCALE 1"=250' VERT. SCALE 1"=40'
DATE 11-18-76 PREPARED BY JRS

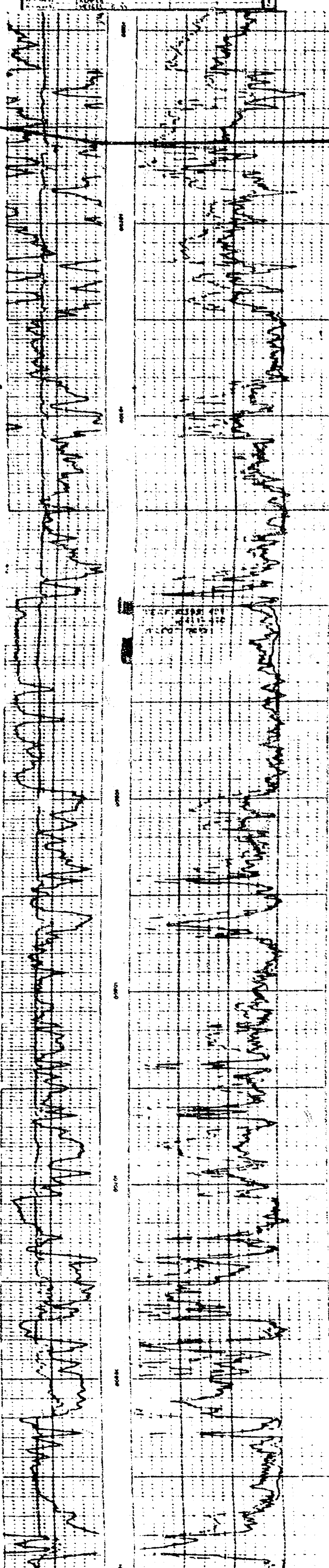
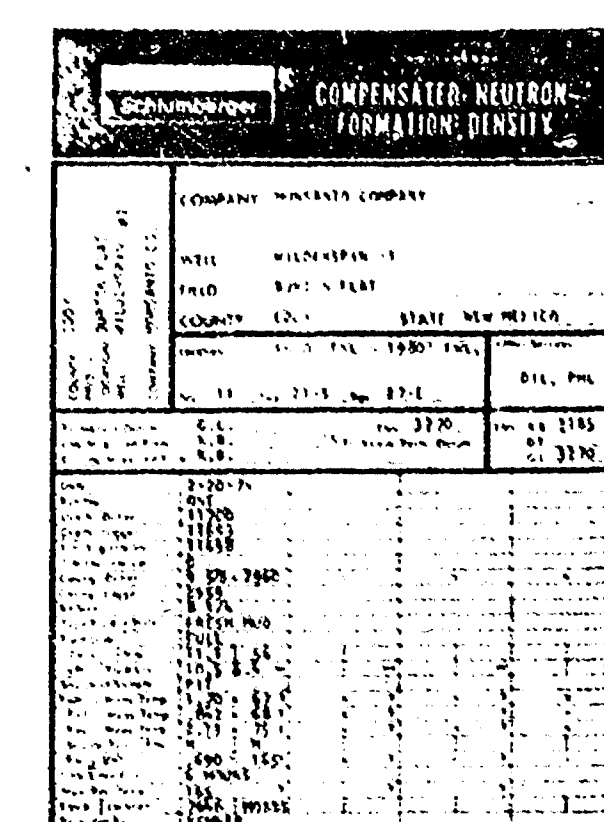
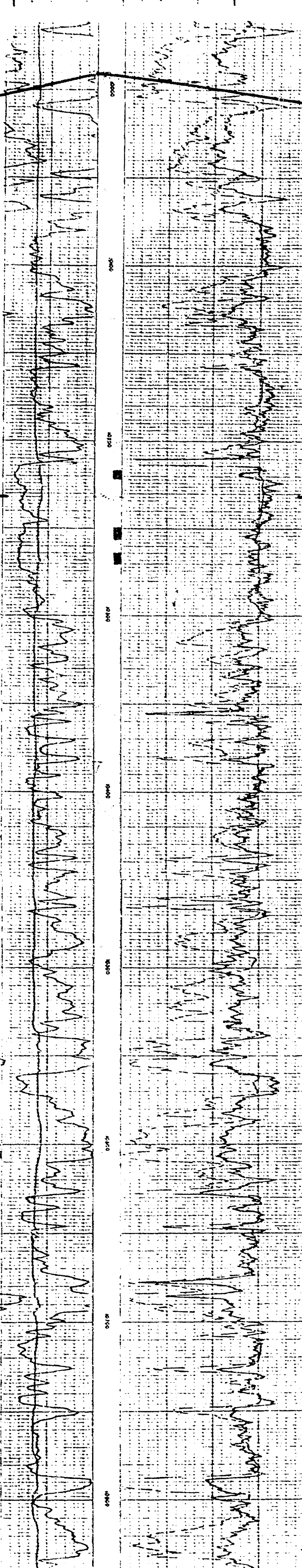
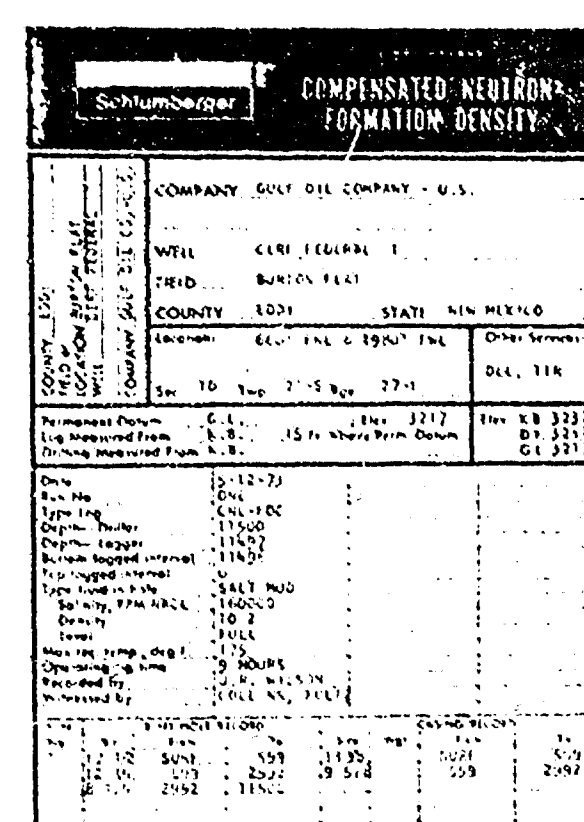
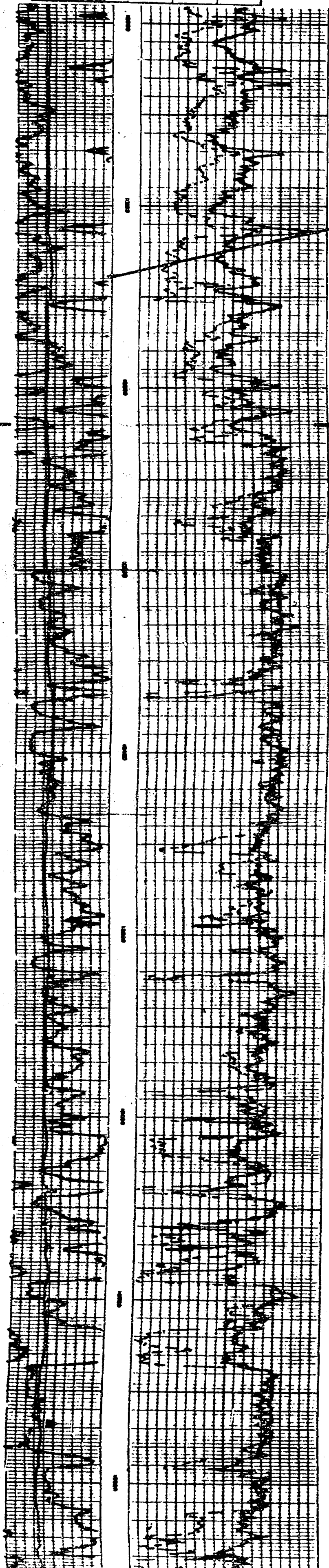
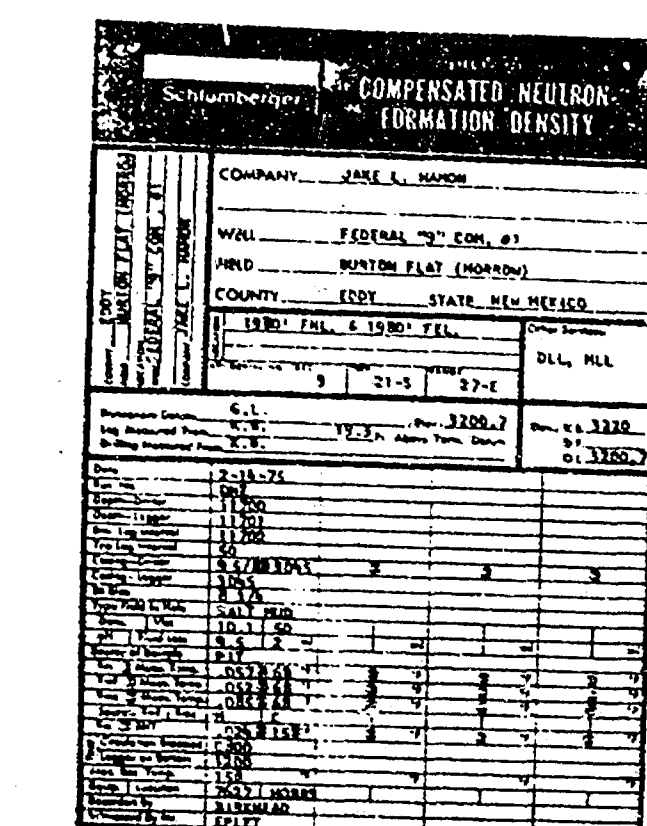
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 7
CASE NO. 5811

MICROFILMS

12 COPY

W

E



-7000'

- -7000'

Actual Distance
is 5500'

- -7000-

STRAWN: 2

INITIAL COMPLETION

6-19-73: Perf. 10217-221, 10265-269 w/4 SPF
Acid w/ 3000 gal. Flowed 471 MCFD
48 Hr. SITT 3800 Psi

7-12-73: Overnight SITT 3800 Psi. Flowed 471
MCFD

8-23-73: Flowed 590 MCFD, 4 RO in 14 hrs 21/64
FIT 600

8-31-76: Taking Potential

9-07-76: CAOF 1632 MCFD.

WORKOVER

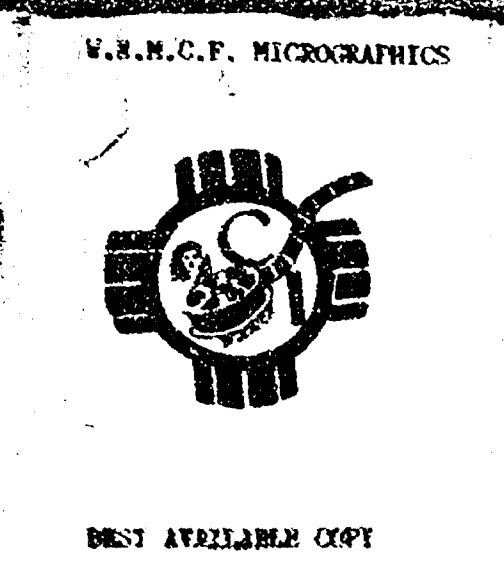
Object- reperfr @ 10216-270
2-27-76 to 3-27-75: Fishing for prod. equipt.

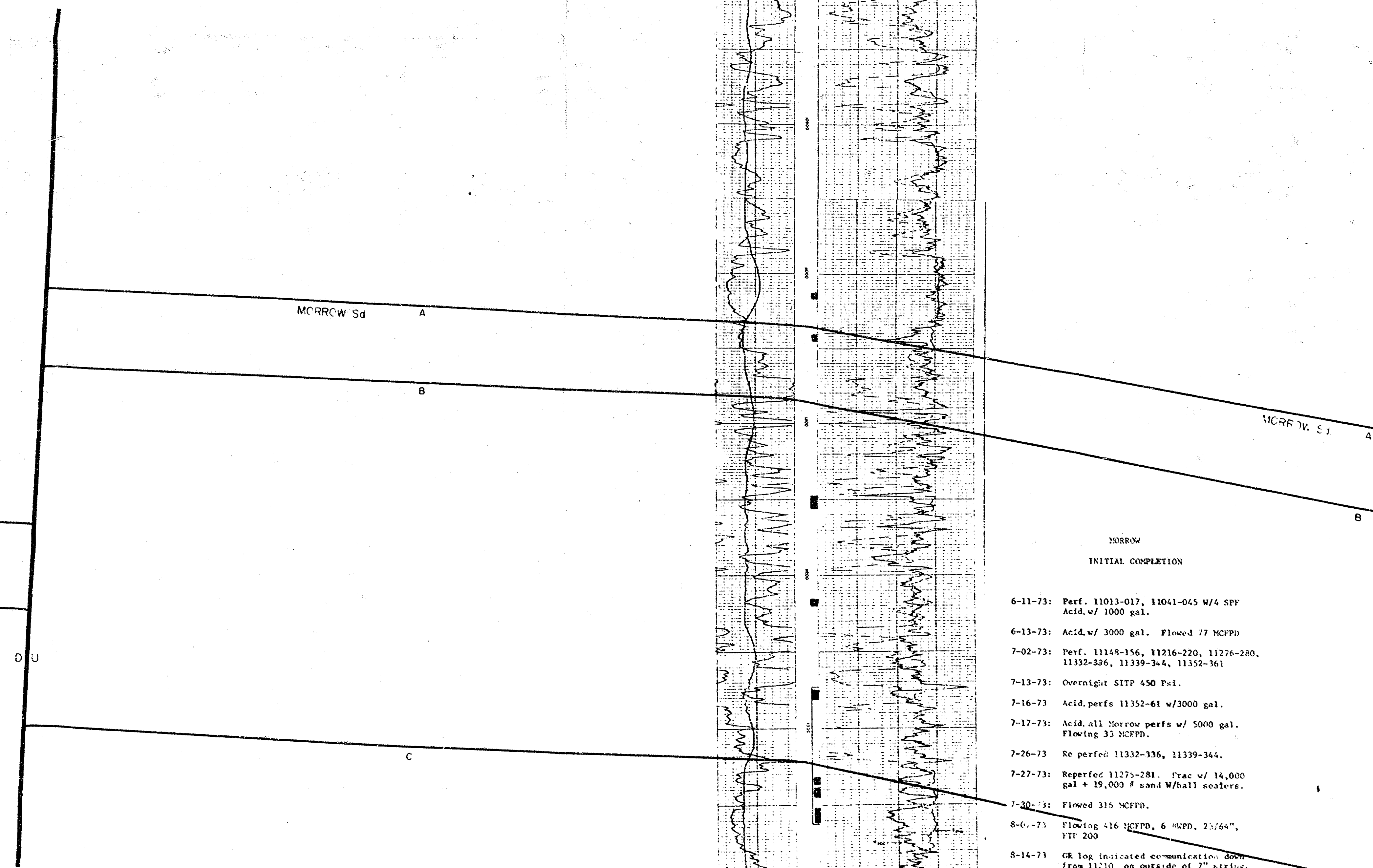
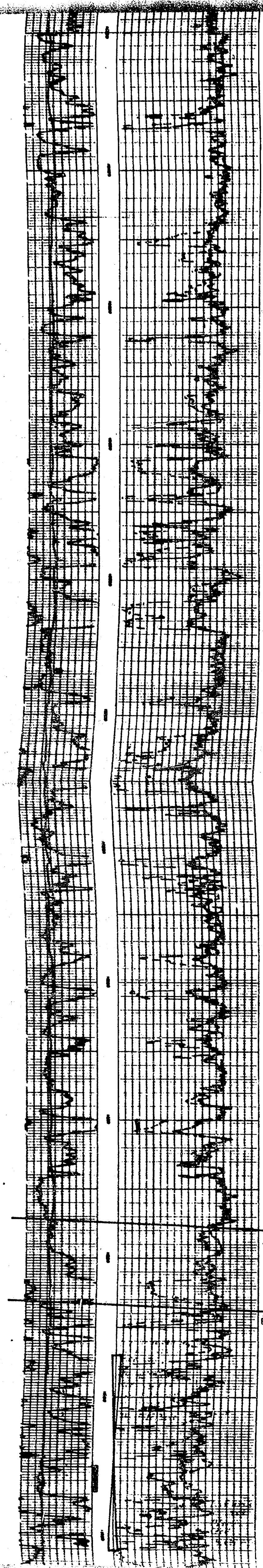
3-31-75: Perf. 10216-222, 10250-256, 10264-270
w/4 SPF

4-01-75: Frac in 3 stages w/ 32000 gal + 24000
sand. Floored 823 MCFFD.

4-10-75: Acid w/ 3000 gal. acid.

PE (Ssrn) 6/10, 396-10, .04
26/10, 417-10, .430
Flwd 320,000 CFGPD, 48/64" ck, TP 25,
A/2000
Flwd 14,000,000 CFGPD, 48/64" ck, FTP 1160
Flwd 9,000,000 CFGPD, 32/64" ck,





6-19-73: Perf. 10217-221, 10265-269 w/4 SPV
Acid w/ 3000 gal. Flowed 471 MCFTD
48 Hr. SITP 3800 Psi

7-12-73: Overnight SITP 3800 Psi. Flowed 471
MCFTD

8-23-73: Flowed 590 MCFTD, 4 BD in 14 hrs 21/64"
FTT 600

8-31-76: Taking Potential

9-07-76: CAGP 1632 MCFTD

WORKOVER

Object: repair @ 10216-270
2-27-76 to 3-27-75: Fishing for prod. eqpt.

3-31-75: Perf. 10216-222, 10250-256, 10264-270
w/4 SPV

4-01-75: Frac in 3 stages w/ 32000 gal + 24000
sand. Flowed 823 MCFTD.

4-10-75: Acid w/ 3000 gal. acid.

FF (Strn) 6/10, 398-10, 400
Flwd 320,000 GFTD, 48/64" ck., TE 25,
4/2000

Flwd 14,000,000 GFTD, 38/64" ck., FTE 1100

Flwd 3,000,000 GFTD, 38/64" ck.

MORROW
INITIAL COMPLETION

6-11-73: Perf. 11013-017, 11041-045 w/4 SPV
Acid w/ 1000 gal.

6-13-73: Acid w/ 3000 gal. Flowed 77 MCFTD

7-02-73: Perf. 11146-156, 11216-220, 11276-280,
11332-326, 11339-344, 11352-361

7-13-73: Overnight SITP 450 Psi.

7-16-73: Acid perfs 11352-41 w/3000 gal.

7-17-73: Acid all Morrow perfs w/ 5000 gal.
Flowing 35 MCFTD.

7-26-73: Re perfor 11332-336, 11339-344.

7-27-73: Reperfor 11275-281. Frac w/ 14,000
gal + 19,000 # sand w/ball sealers.

7-30-73: Flowed 315 MCFTD.

8-01-73: Flowing 416 MCFTD, 6 MCFTD, 25/64",
FTT 200

8-14-73: GR log indicated communication zone
from 11210 on outside of 2" setting.

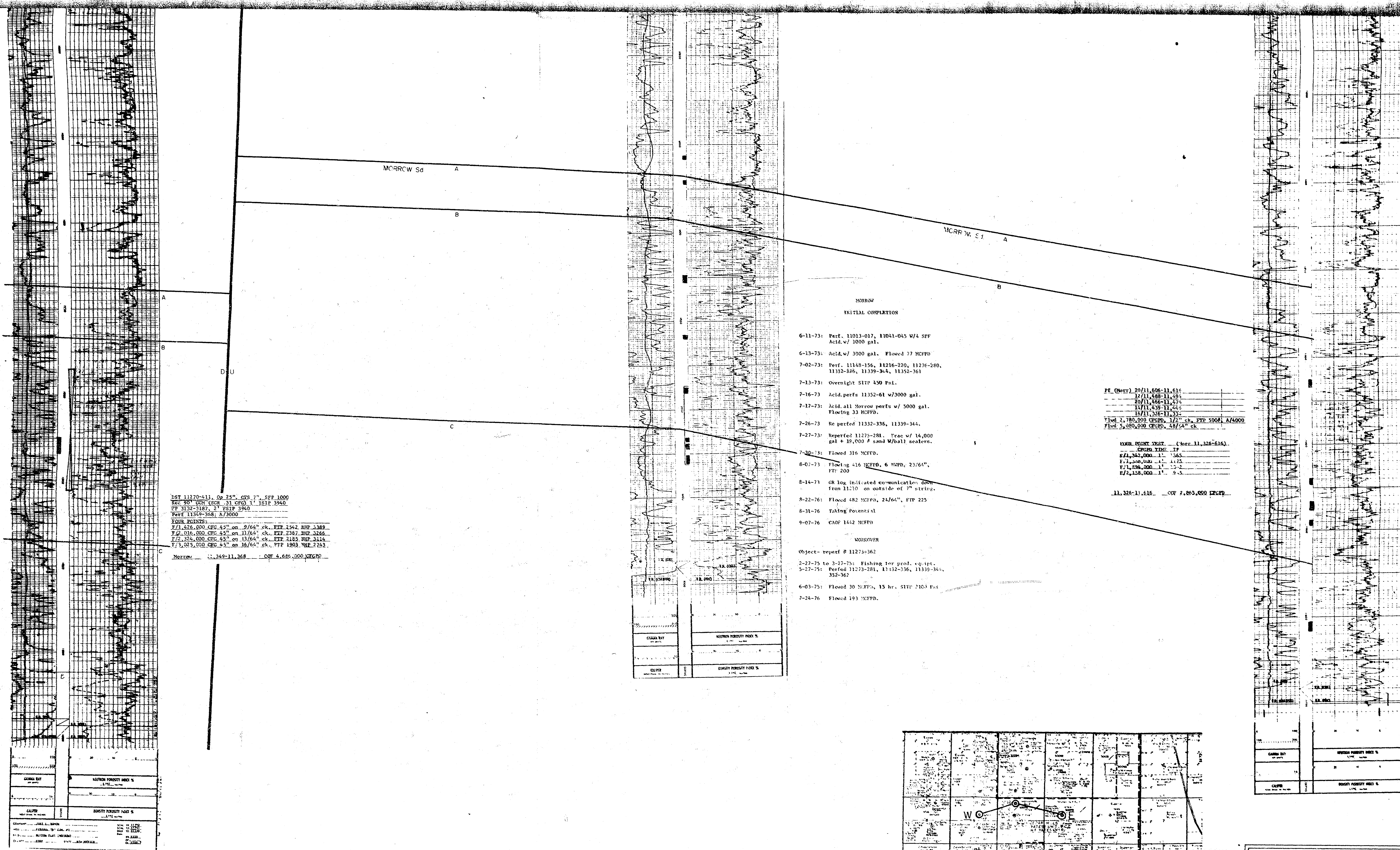
8-27-76: Flowed 482 MCFTD, 24/64", 1.0 225

FF (Strn) 29/11, 408-11, 614
Flwd 1,780,000 GFTD, 1/2" ck., FTE 5000, A/4000
Flwd 3,000,000 GFTD, 48/64" ck.

FLUID POINT TEST - (see 11,326-614)
GFTD TIME - 17
#1,250,000 - 1" 1/2" 1/2"
#1,250,000 - 1" 1/2" 1/2"
#1,250,000 - 1" 1/2" 1/2"
#1,250,000 - 1" 1/2" 1/2"

11,326-11,615 - COP 1,845,000 GFTD





MONSANTO COMPANY
 SOUTHWESTERN REGION
**W-E Cross Section in
 Burton Flat Field, Eddy Co., N.M.**
 DATUM Sea Level (7000')
 HOR SCALE 1"=250' (see note) VERT SCALE 1"=40'
 DATE 11/18/76 PREPARED BY JRS

BEFORE EXAMINATION
 BY CHECKER
 NAME DATE NO.
 CASE NO. 5811

EX-16-778

V.M.C.F. MICROFILMS



BEST AVAILABLE COPY