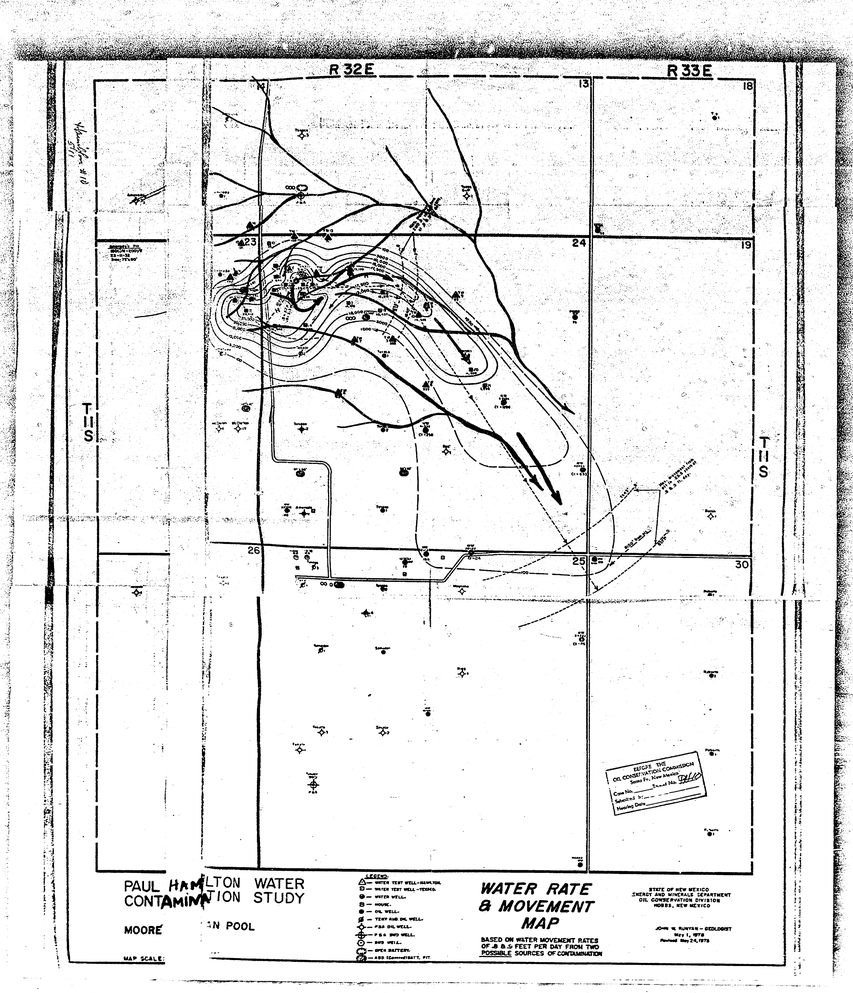
Case No
6231

Large Exhibits



U.S.G.S. PHOTOGRAPHICS

WEST
A→

IPCAOF 23,000 M

IPCAOF 6,400 M

IPF 13,300 M

IPCAOF 27,000 M

TOP/MORROW

MORROW MARKER

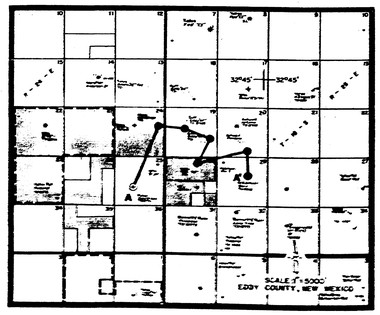
UPPER MORROW SANDSTONE

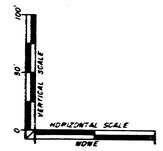
NOT TESTED

LOWER MORROW

TOP / MISSISSIPPIAN SHALE

TOP / MISSISSIPPIAN LIMESTONE





EAST
A'

00 M

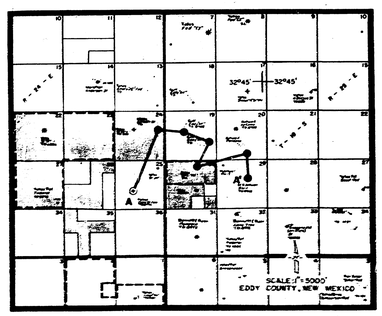
IPCAOF 6,400 M

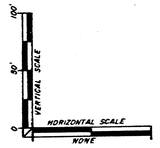
IPF 13,300 M

IPCAOF 27,000 M

IPCAOF 8,500 M

MORROW MARKER





MESA
PETROLEUM CO.
PERMIAN BASIN DIVISION

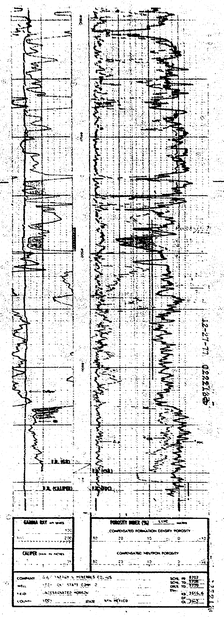
CASS RANCH PROSPECT
Eddy County, New Mexico

WEST – EAST
STRATIGRAPHIC CROSS-SECTION
A – A'
(Showing Sandstones and
Pay Zones in the Morrow)

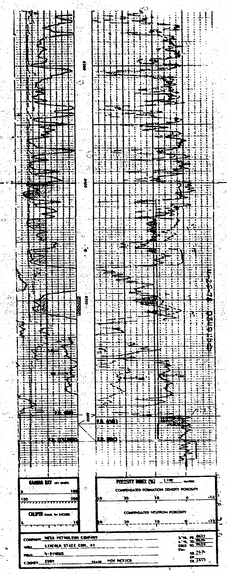
BY: J.W. JETTER
DATE: 2-2-79
SCALE: 1"=50'
DRAWING NO. CCR
10-54

V.S.R.C.P. MICROGRAPHICS

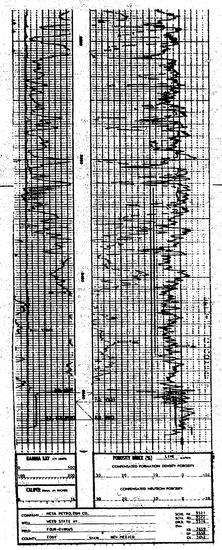
GULF OIL CORP. NO. 2 EDDY "GC" STATE COM.
KB 3675'



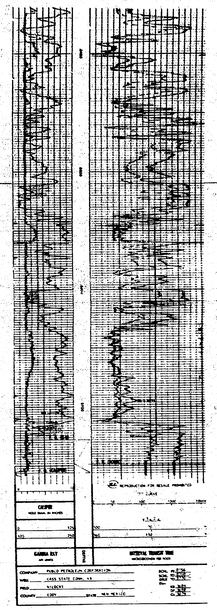
MESA PETR. CO. NO. 1 LINCOLN STATE COM.
KB_ 3674'



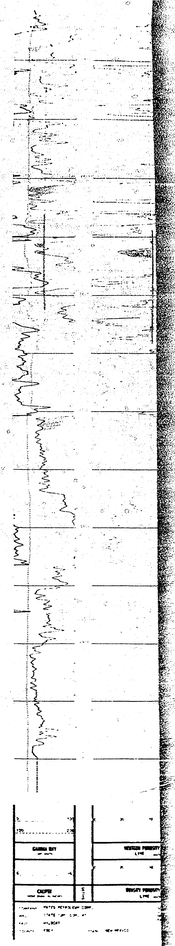
MESA PETR. CO. NO. 1 WEED STATE
KB 3659'



PUBCO NO. 1 CASS STATE COM.
KB 3699'



YATES PET. CORP. NO. 1 STATE
GL 3664'



GULF OIL CORP. NO. 2 EDDY "GC" STATE COM.
SEC. 19-18S-25E
NO MORROW DST'S.
PERF'S 8478'-98'
COMPL. 1-2-78.
IP CAOF 22,869 MCFGPD

GROSS SAND 17'
NET SAND 13'

MESA PETR. CO. NO. 1 LINCOLN STATE COM.
SEC 24-18S-24E
PERFS: 8497'-8513'
COMPL. 9-18-78 MORROW
IP CAOF 2145 MCFGPD, GOR DRY

GROSS SAND 33' & 21'
NET SAND 17' & 10'

MESA PETR. CO. NO. 1 WEED ST.
SEC 24-18S-24E
TWO ATOKA DST'S, NO MORROW DST'S.
NO PERFS.
D & A, T.D. 8524'

GROSS SAND 0'
NET SAND 0'

PUBCO NO. 1 CASS STATE COM.
SEC 25-18S-24E
DST: 8245'-8475', GAS @ 550 MCF.
DEEP, TD 30 MCFGP
NO PERFS.
D & A, T.D. 8779'

GROSS SAND 12'
NET SAND 0'

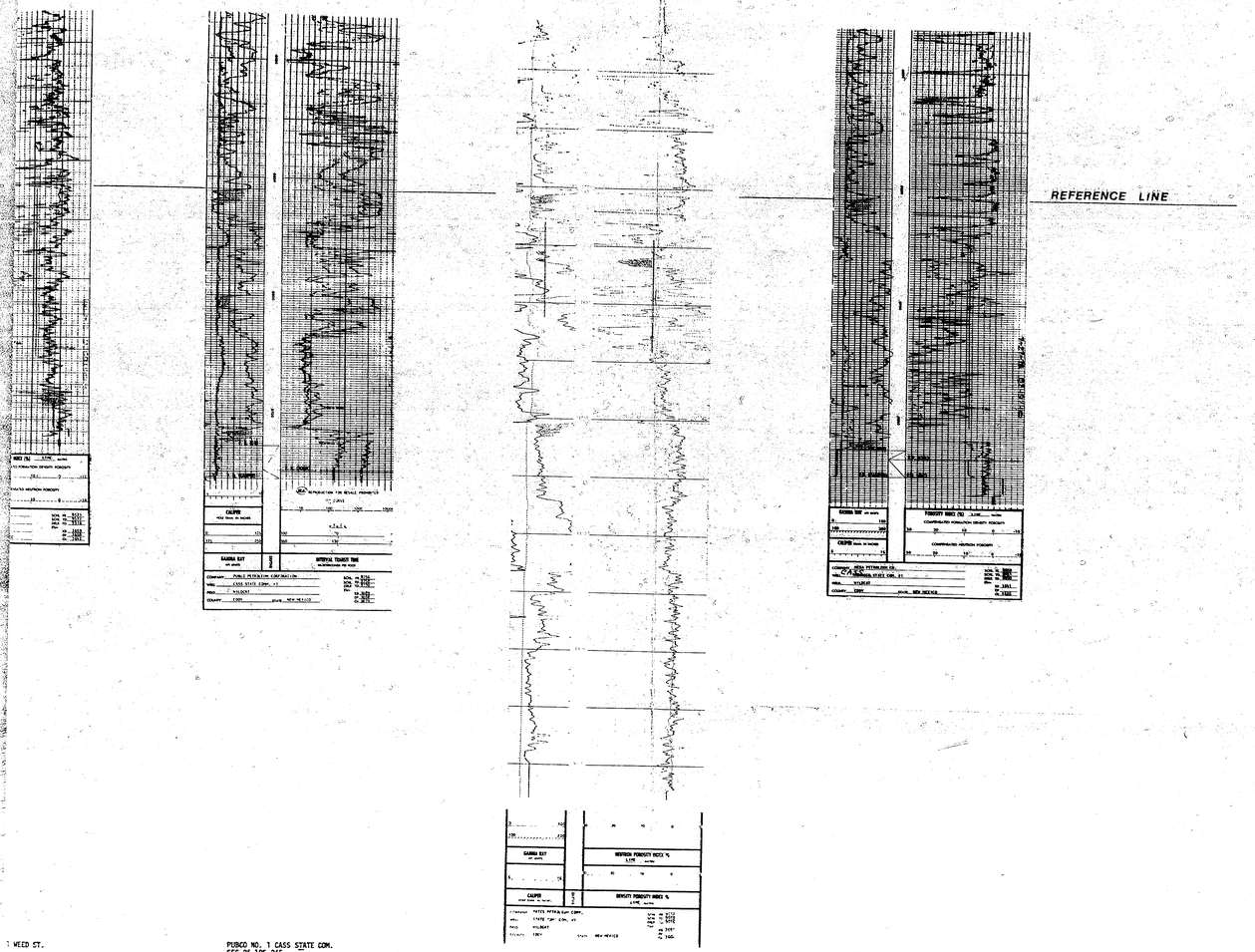


WEED STATE

PUBCO NO. 1 CASS STATE COM.
KB 3689'

YATES PET. CORP. NO. 1 STATE "JM" COM.
GL 3664'

MESA PETR. CO. NO. 1 PENASCO STATE COM.
KB 3641'



1 WEED ST.
MORROW DST'S.

PUBCO NO. 1 CASS STATE COM.
SEC 25-18S-24E
DST: 8245'-8475', GAS @ 550 MCF.
DECR. TO 30 MCFGP
NO PERFS.
D & A, T.D. 8779'

GROSS SAND 12'
NET SAND 0'

MESA PETR. CO. NO. 1 PENASCO STATE COM.
SEC. 30-18S-25E

GROSS SAND 0'
NET SAND 0'

42-1
Exhibit 2
2-7-79

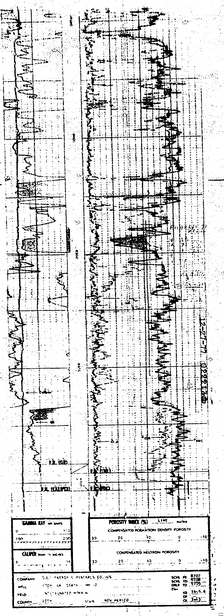
EXHIBIT NO.
CASE:
DATE:

LOG SECTION A-A'
GROSS SAND: GAMMA RAY<50 API UNITS
NET SAND: 5% POROSITY OR >

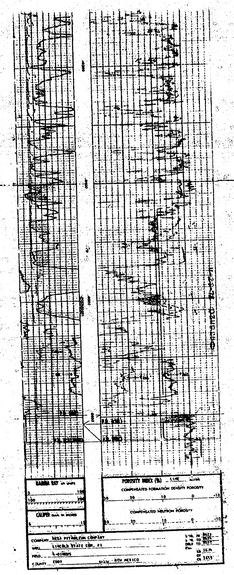
GULF OIL CORPORATION — SOUTHWEST DISTRICT
MIDLAND, TEXAS

N.M.O.C.D. RECORDS
BEST AVAILABLE COPY

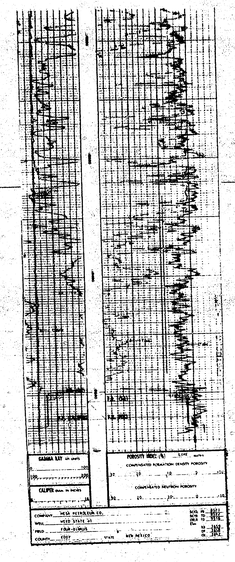
GULF OIL CORP. NO. 2 EDDY "GK" STATE COM.
KB 3678'



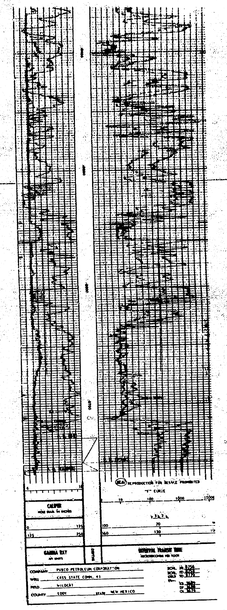
MESA PETR. CO. NO. 1 LINCOLN STATE COM.
KB 3674'



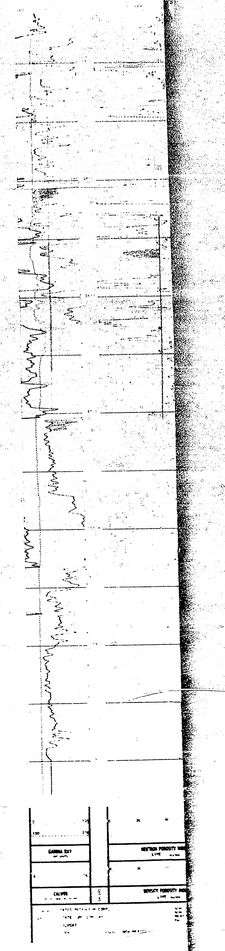
MESA PETR. CO. NO. 1 WEED STATE
KB 3659'



PUBCO NO. 1 CASS STATE COM.
KB 3689'



YATES PET. CORP. NO. 1 STATE "JA
GL 3664'



GULF OIL CORP. NO. 2 EDDY "GK" STATE COM.
SEC. 19-18S-29E
NO MORROW DST'S.
PERFS 8478'-98'
COMPL. 1-2-78.
IP CAOF 22,069 MCFGPD

GROSS SAND 17'
WET SAND 13'

MESA PETR. CO. NO. 1 LINCOLN STATE COM.
SEC 24-18S-24E
PERFS: 8497'-8513'
COMPL: 9-18-78 MORROW
IP CAOF 2145 MCFGPD, GOR DRY

GROSS SAND 33' & 21'
WET SAND 17' & 10'

MESA PETR. CO. NO. 1 WEED ST.
SEC 24-18S-24E
TWO ATOKA DST'S, NO MORROW DST'S.
NO PERFS.
D & A, T.D. 8524'

GROSS SAND 0'
WET SAND 0'

PUBCO NO. 1 CASS STATE COM.
SEC 25-18S-24E
DST. 8245'-8475', GAS @ 550 MCF.
DECR. TO 90 MCFGP
NO PERFS.
D & A, T.D. 8779'

GROSS SAND 12'
WET SAND 0'

M.W.M./C.P. MICROGRAPHICS

WEED STATE

PUBCO NO. 1 CASS STATE COM.
KB 3689'

YATES PET. CORP. NO. 1 STATE "JM" COM.
GL 3604'

MESA PETR. CO. NO. 1 PENASCO STATE COM.
KB 3641'

REFERENCE LINE

WEED ST.
YOUNGSTOWN DST'S.

PUBCO NO. 1 CASS STATE COM.
SEC 25-18S-24E
DST, 8245'-8475', GAS @ 550 MCF.
DECR. TO 30 MCFGP
NO PERFS.
D & A, T.D. 8779'

GROSS SAND 12'
WET SAND 0'

MESA PETR. CO. NO. 1 PENASCO STATE COM.
SEC. 30-18S-27E

GROSS SAND 0'
WET SAND 0'

BEFORE THE
OIL CONSERVATION
CASE 6231
EXHIBIT NO. 2
DATE 2-20-79

EXHIBIT NO.
CASE:
DATE:

LOG SECTION N-A'
GROSS SAND: GAMMA RAY < 50 API UNITS
WET SAND: 5% POROSITY OR >

GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS

V.R.U.C.F. MICROGRAPHICS

WEST
A→

IPCAOF 23,000 M

IPCAOF 8,400 M

IPF 13,300 M

TOP/MORROW

MORROW MARKER

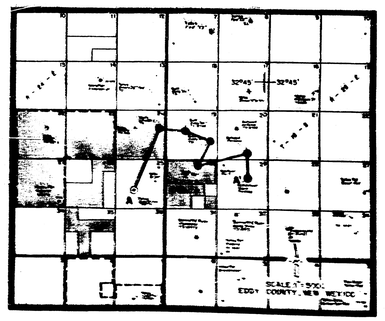
NOT TESTED

UPPER MORROW SANDSTONE

LOWER MORROW

TOP/MISSISSIPPIAN SHALE

TOP/MISSISSIPPIAN LIMESTONE





EAST
A'

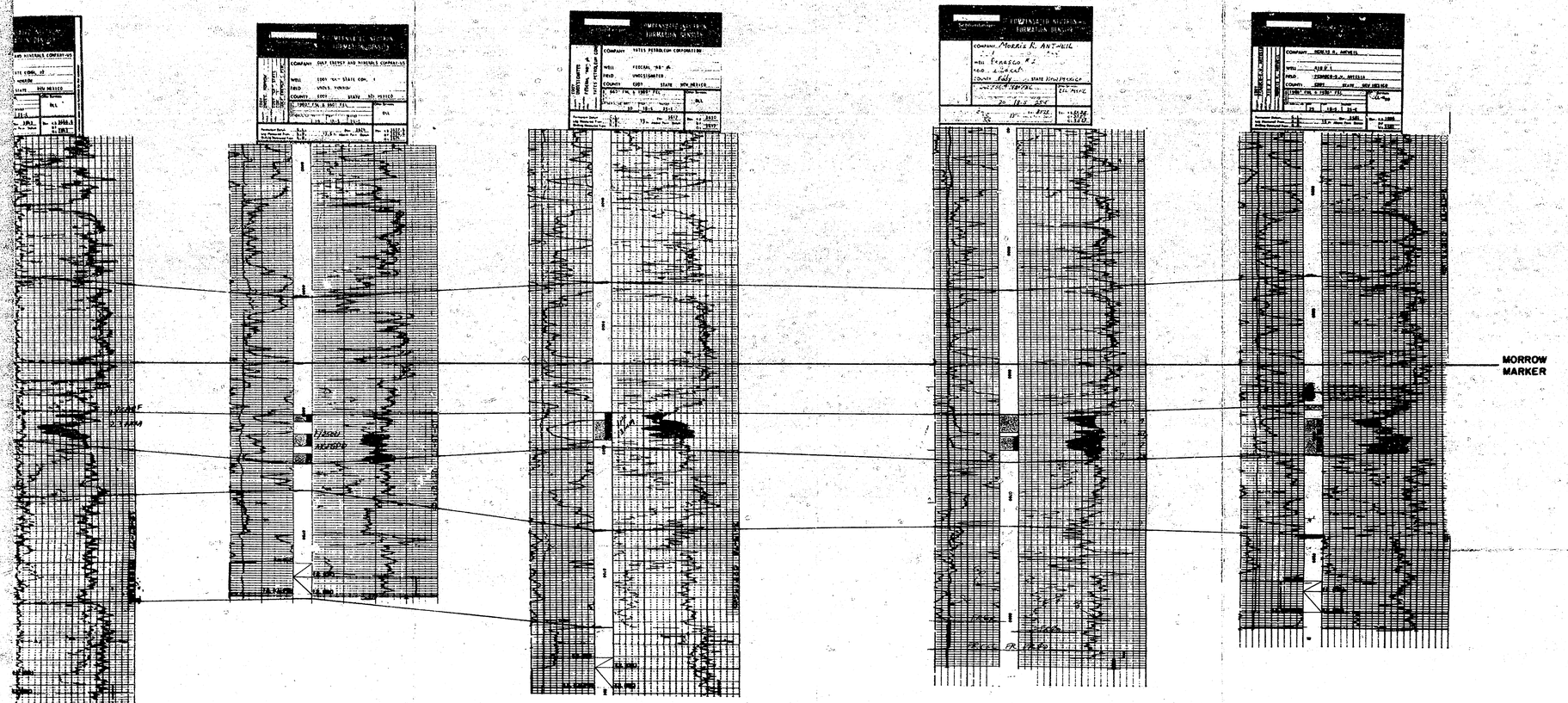
M

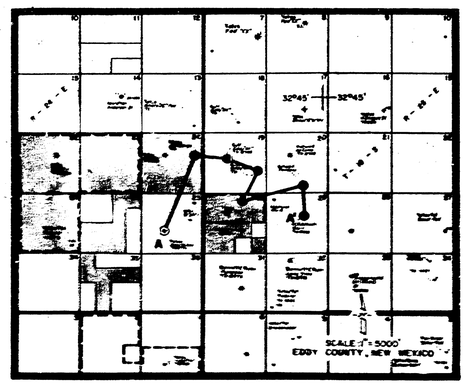
IPCAOF 6,400 M

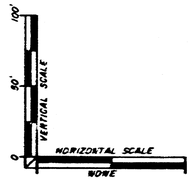
IPF 13,300 M

IPCAOF 27,000 M

IPCAOF 8,500 M







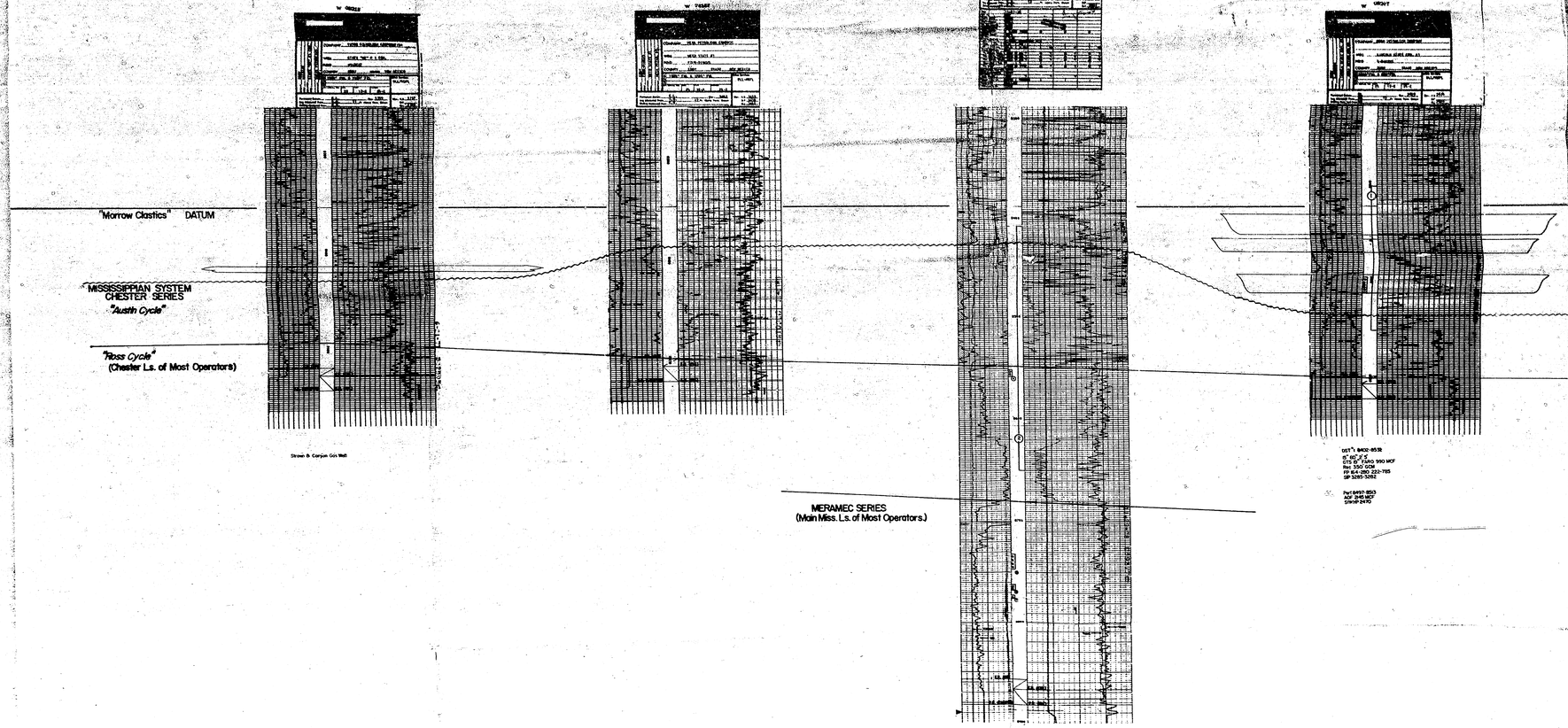
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 6231
Submitted by
Hearing Date

MESA
PETROLEUM CO.
PERMIAN BASIN DIVISION

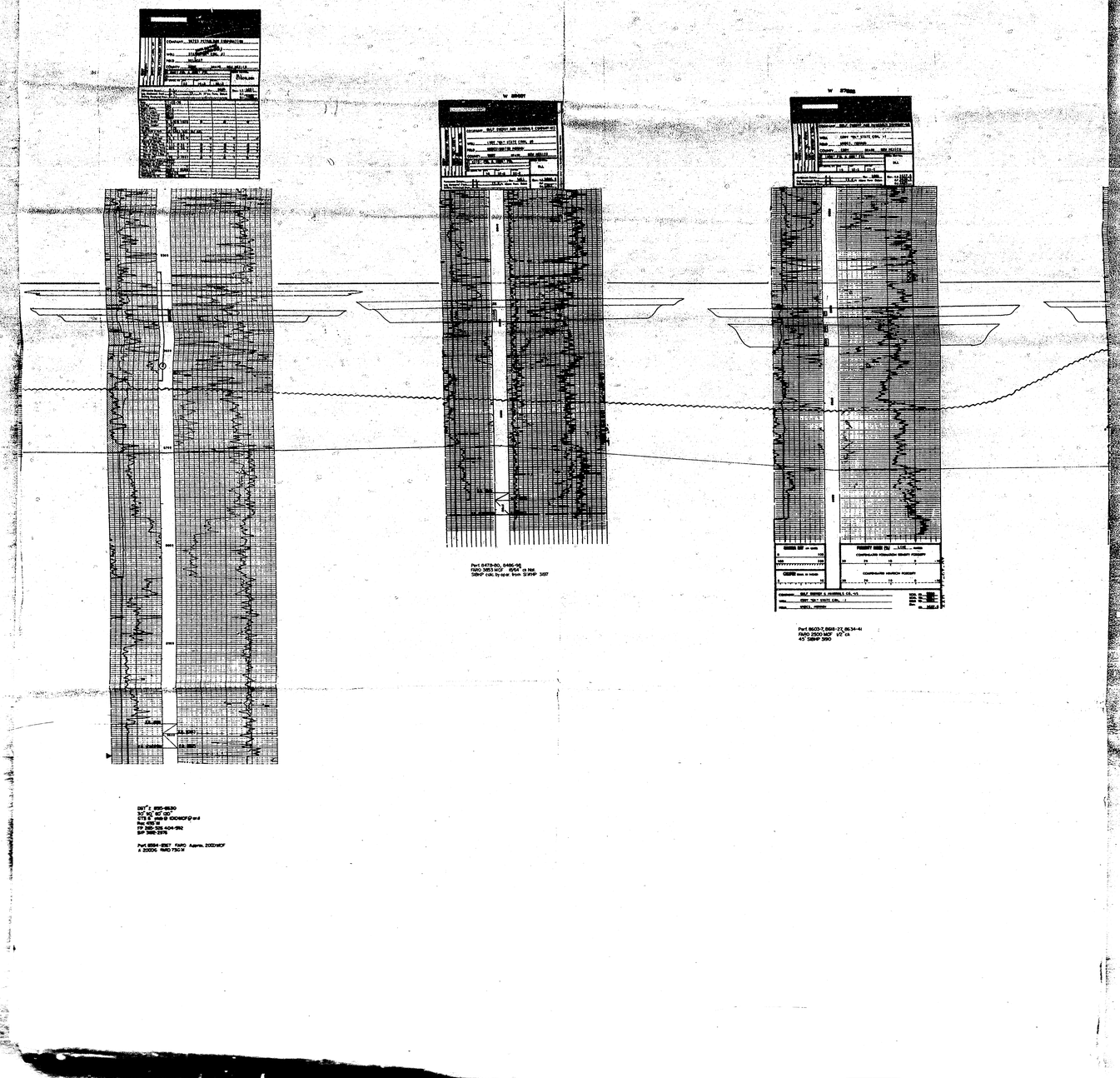
CASS RANCH PROSPECT
Eddy County, New Mexico

WEST - EAST
STRATIGRAPHIC CROSS-SECTION
A - A'

(Showing Sandstone and
Pay Zones in the Morrow)



U.S.G.S. PHOTOGRAPHICS

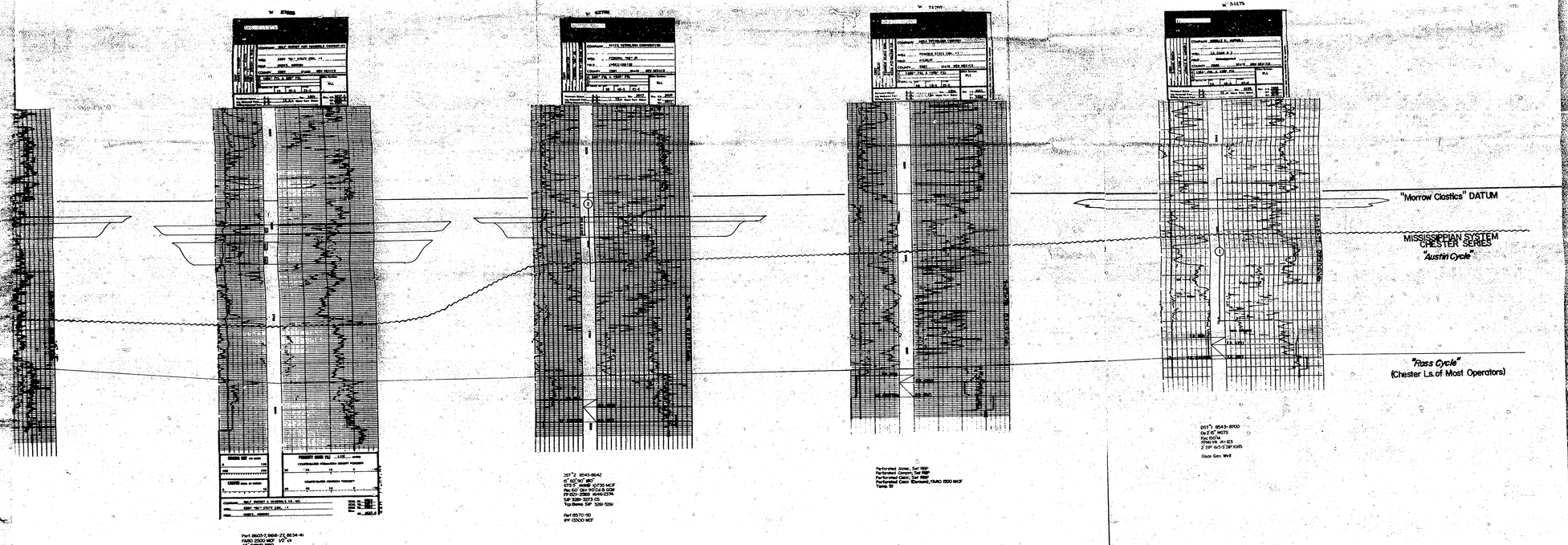


Perf 8478-80, 8486-96
FMO 3853 MCF 6/64 ck flow
SIBHP calc. by spar. from SIWHP 3297

Perf 8603-7, 8608-27, 8634-44
FMO 2500 MCF 1/2" ck
45° SIBHP 3950

Perf 8564-8587 FMO Approx. 2000 MCF
± 20/24 FMO 750 M

U.S.B.M.C.F. MICROGRAPHICS



U.S.B.C.F. MICROGRAPHICS

← MORROW GAS WELLS

"Morrow Clastics" DATUM

MISSISSIPPIAN SYSTEM
CHESTER SERIES
"Austin Cycle"

"Ross Cycle"
(Chester L.s. of Most Operators)

MERAMEC SERIES
(Main Miss. Ls. of Most Operators)

Strawn & Canyon Gas Well

DST's 8402-8532
IF 167 FO
GTS IF 15MG 990 MCF
Rec 330' GCM
FP 64-280 220-785
SIP 3285-3262

Perf 8497-8513
ADF 245 MCF
SIWHP 2470

DST's 8477-8530 Failed

① Perf 8762-63, 8772-73 (Miss)
A 1000 G, Rtr 8 4000 S
Swb Rec @ 2/Hr

② Perf 8752-47 (Miss)
A 2500 S
SIP 1NP

③ Perf 7882-8096, 7892-99, 8026-66 (Morrow)
A 30306 +NRC 454KCF

④ Perf 8329-37 Miss Chester
A 4000 S
RWC 2530 MCF

DST's 7925-8029
IO 90 FC 60"
GTS 2" (Immediate)
Rec 4580'
FP 880-1516 624-1516
SIP 3068-2976

Perf 8004-8027 7980' Morrow, 2000 MCF
A 20000 RWC 1500

← MORROW GAS WELLS

MAPPED INTERVAL

ERIES
Most Operators)

DST #1 8407-8520 Rebel
① Perf 8742-57, 8777-73 (Miss)
A 6000 G, Re-A 4000 G
Swb 88BF @ 8748

② Perf. 8732-47 (Miss)
A 2500 G
No BBP

③ Perf. 7882-8066, 7932-39, 8040-66 (Morrow)
A 30000 F&FO 45MCF

④ Perf. 8518-37 Miss Chester
A 4000 G
F&RO 2600 MCF

DST #1 8402-8532
IF 60" CP
ISI 45" F&FO 990 MCF
Rec 3167 GCM
FP 64-280 222-785
SIP 5285-5282

Perf 8497-8513
ACF 345 MCF
SIWHP 2470

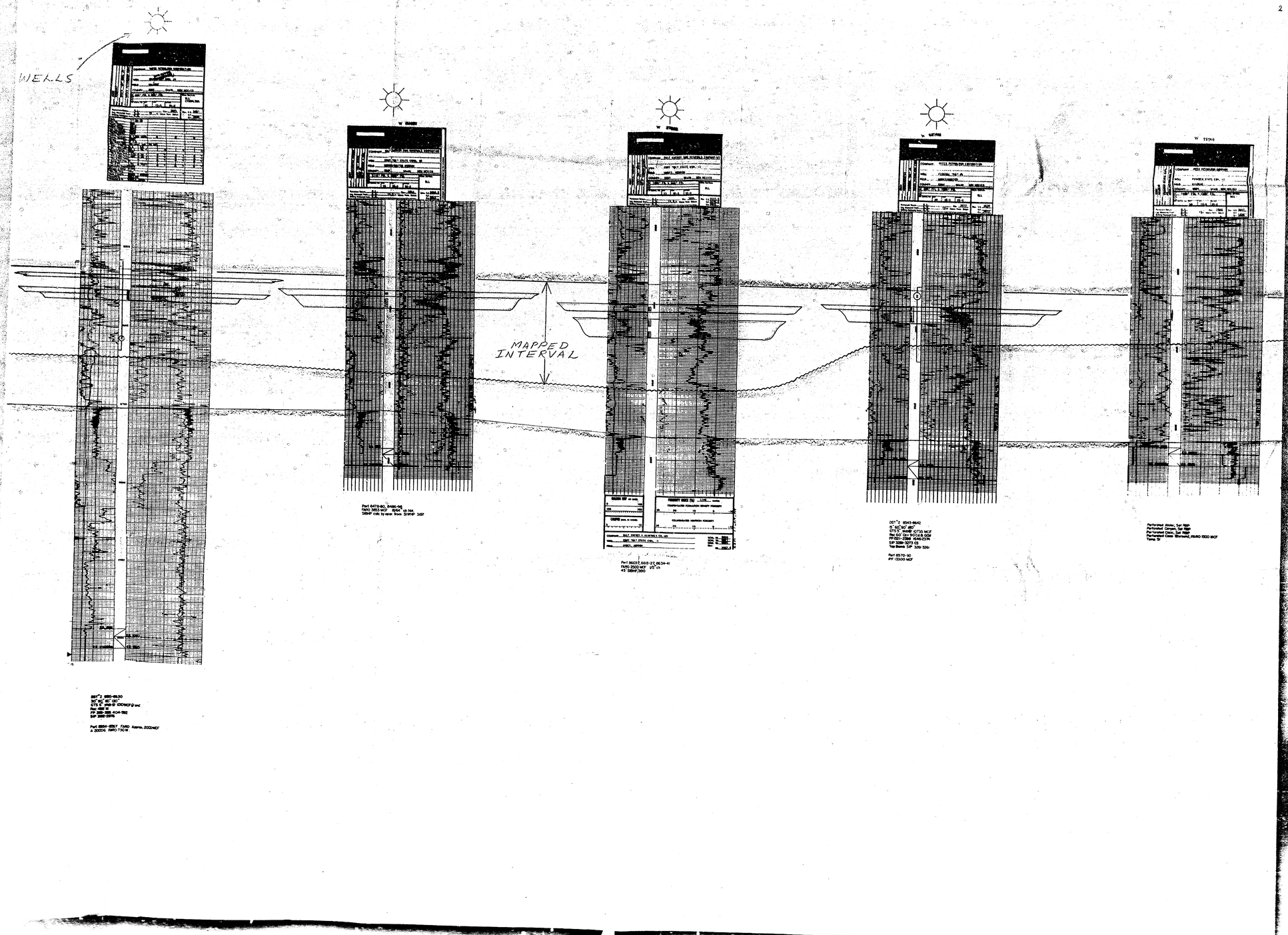
DST #1 8415-8530
30" IO" 60" ISI
ISI 2" Dwn @ 100MCFD est
FP 1888-1888
SIP 5284-5264-5262
SIP 3562-3916

Perf 8554-8567 F&RO Asmp. 200MCF
A 2000G F&RO 750 W

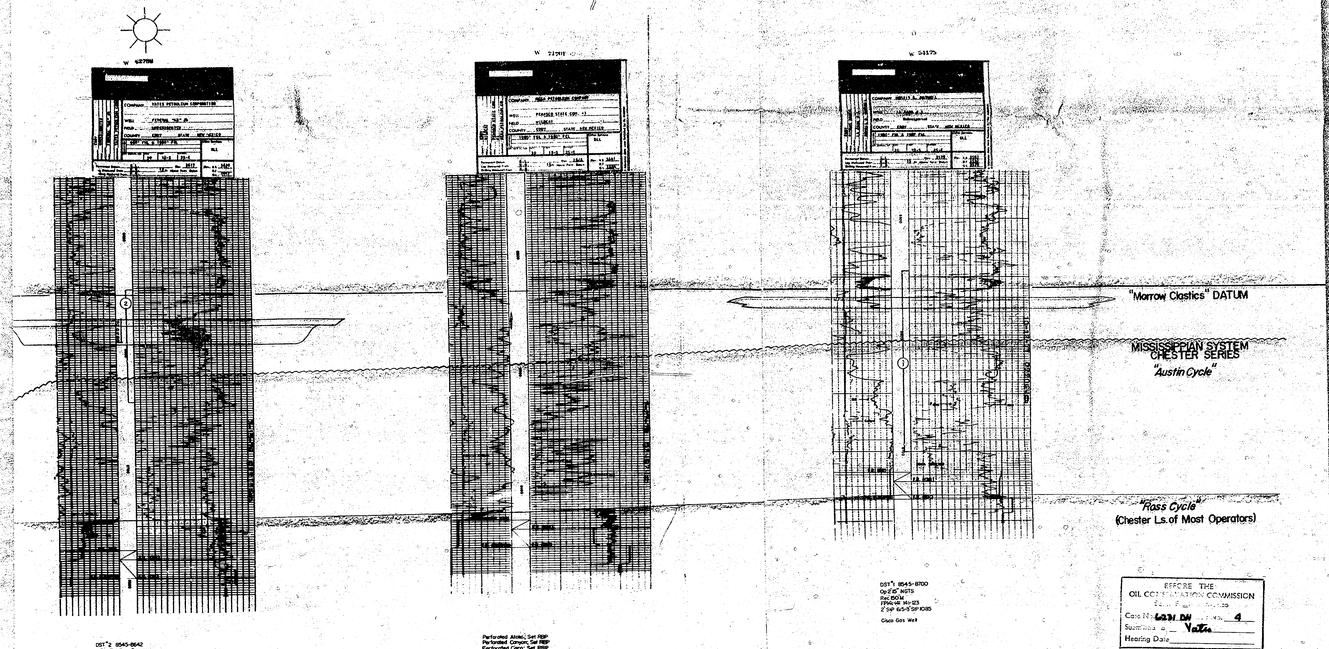
Perf 8478-80, 8486-98
F&RO 3601 MCF 64/64 in tbg
SIBHP calc by ext from SIWHP 3497

Perf 8803-7, 8818-22, 8834-9
F&RO 2500 MCF WC-3
45 SIBHP 3980

U.S.G.S. TOPOGRAPHICS



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



DST 1, 8545-8642
30"-45"-60"-90"
GTS 5" in 48 MCF
Rec 60' GCM, 540' GCW & SGM
IFP 621-2268 IHP 4246-4234
ISIP 3281-3273 CIP
Top Bomb SIP 3291-3269

Perf 8570-90
PT (3000 MCF

DST 2, 8545-8700
Op 60" MITS
Rec 210' GCM
IFP 1041-1041-123
2nd Flow 1041-1041-1085
ISIP 4247-4247-4085

Gas Gas Well

Perforated Atoka, Set RBP
Perforated Canyon, Set RBP
Perforated Cisco, Set RBP
Perforated Cisco (Burnout), FARO 1500 MCF
Temp 38

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 6431 Exhibit No. 4
Submitted by: Yates
Hearing Date

U.S.G.S. MICROGRAPHICS