Case No.
7208

Large Exhibits



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 2
CASE NO. 7205

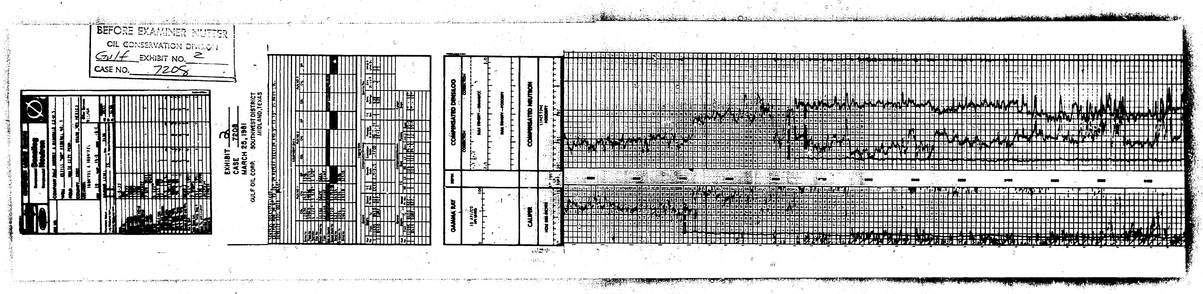
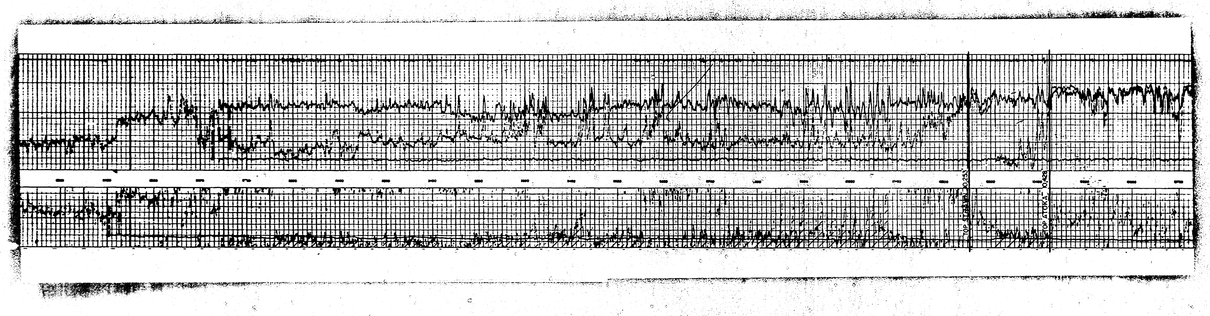
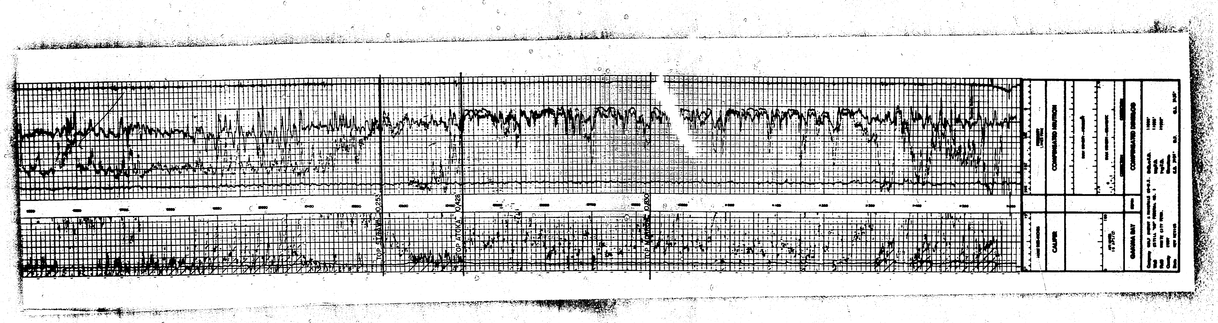
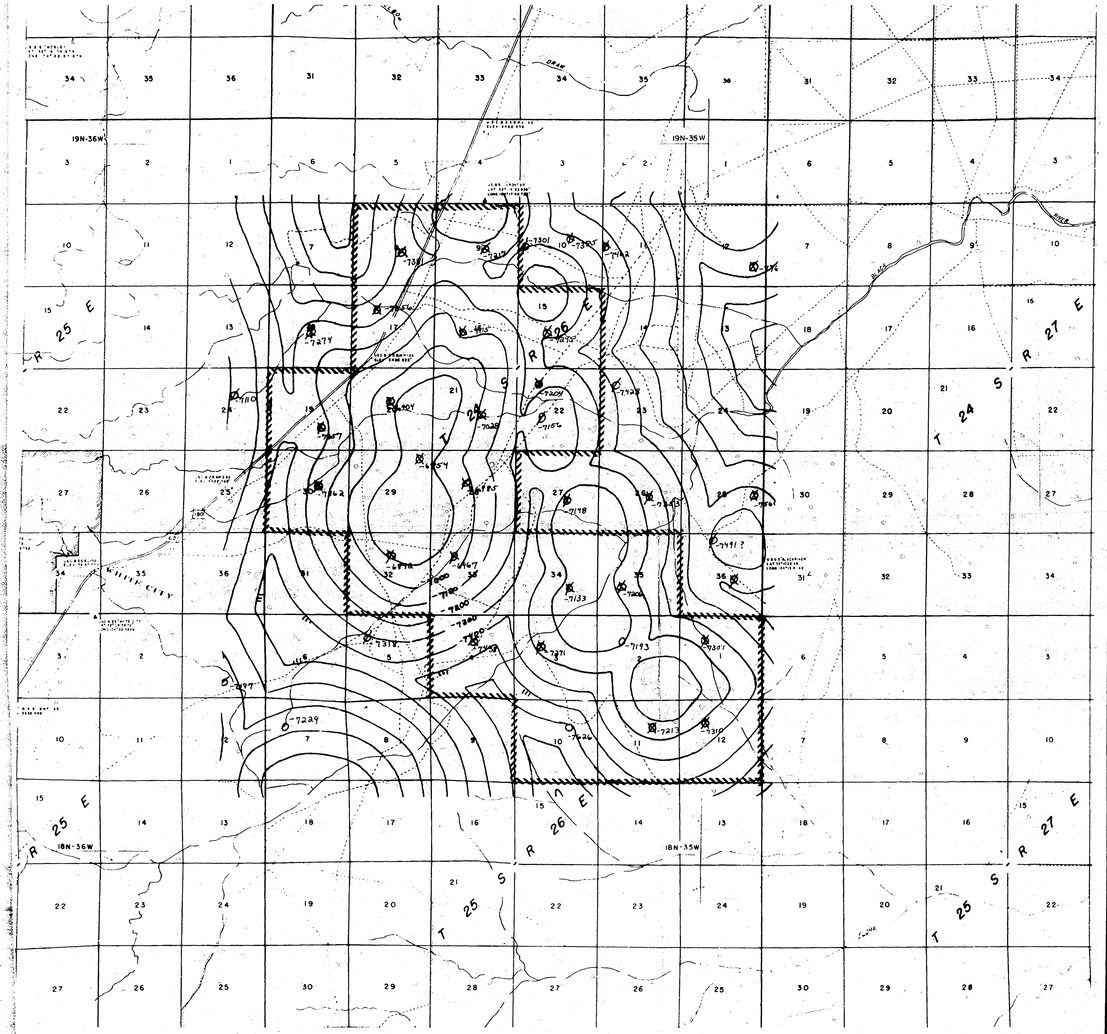
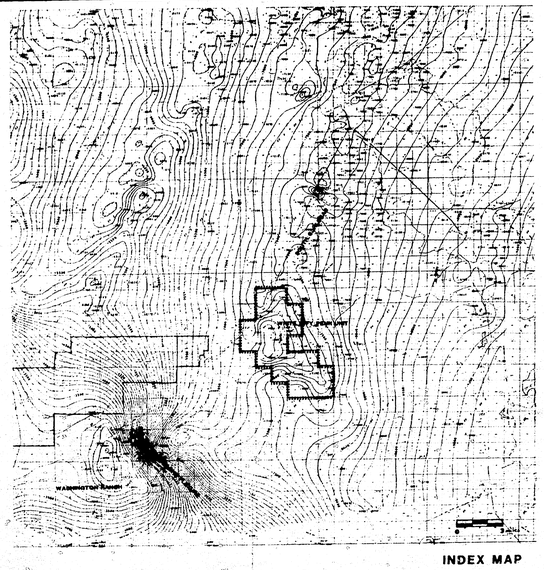


EXHIBIT 2
CASE 7205
MARCH 25, 1981
GULF OIL CORP. SOUTHLAND/TXAS









INDEX MAP

EXHIBIT 3
CASE 7208
MARCH 25, 1981

GULF OIL CORPORATION
WHITE CITY PENN GAS POOL
EDDY COUNTY, NEW MEXICO

STRUCTURAL CONTOURS ON ~~CHESTER~~ MORROW LIMESTONE

CONTOUR INTERVAL = 100ft

UNIT OUTLINE

SCALE IN FEET

0 3000 6000

Ø DRY HOLE

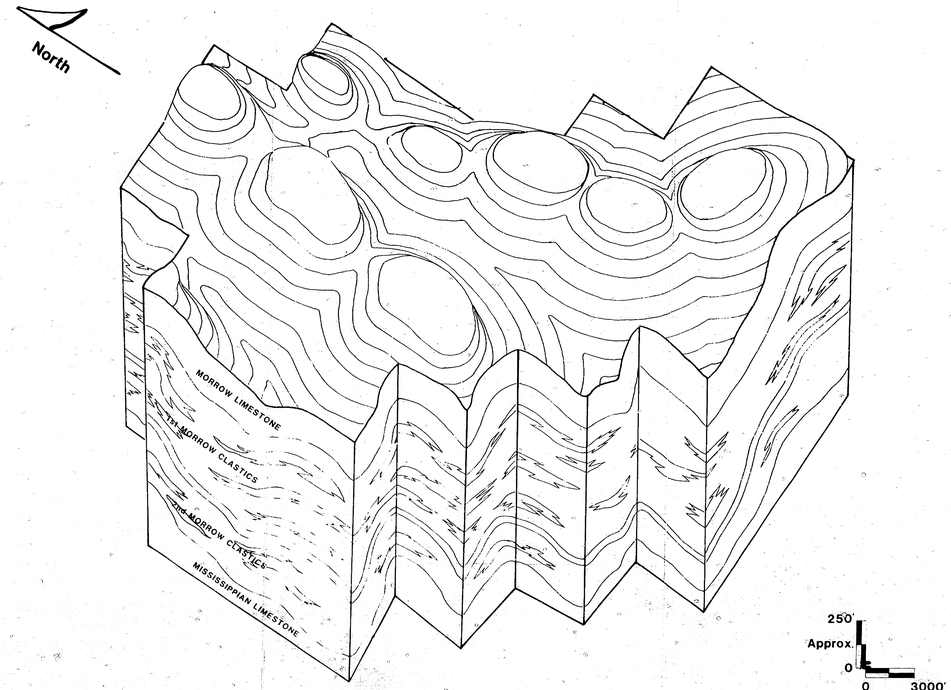
GAS PRODUCER

ABANDONED PRODUCER

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
GULF'S EXHIBIT NO. 3
CASE NO. 7208

GEOLOGY: R. R. CASAVANT





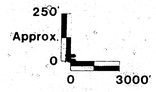


EXHIBIT 4

CASE 7208

MARCH 25,1981

3-DIMENSIONAL STRUCTURAL-STRATIGRAPHIC OVERVIEW

WHITE CITY PENN. POOL

T-24-S R-26-E

T-25-S R-26-E

EDDY CO., NEW MEXICO

GEOLOGY: R. R. CASAVANT

GULF OIL CORPORATION

SOUTHWEST DISTRICT

MIDLAND, TEXAS

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 4
CASE NO. 7208



E

EN6381 EC

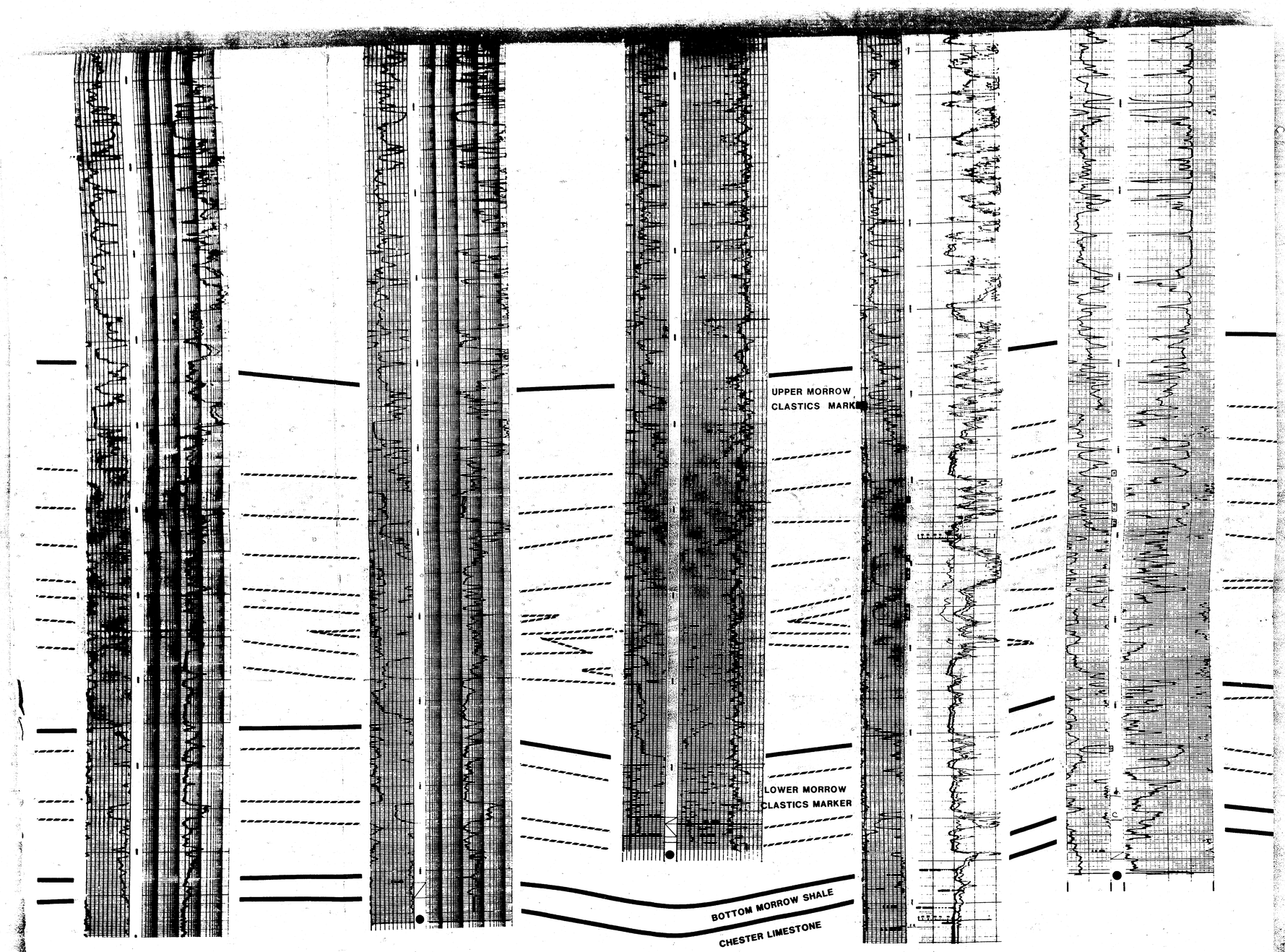
EN6381 EC

MORROW LIMESTONE

UPPER MORROW
CLASTICS MARK

U.S.G.S. WASHINGTON

NOT AVAILABLE OFF



U.S.G.S. TOPOGRAPHIC
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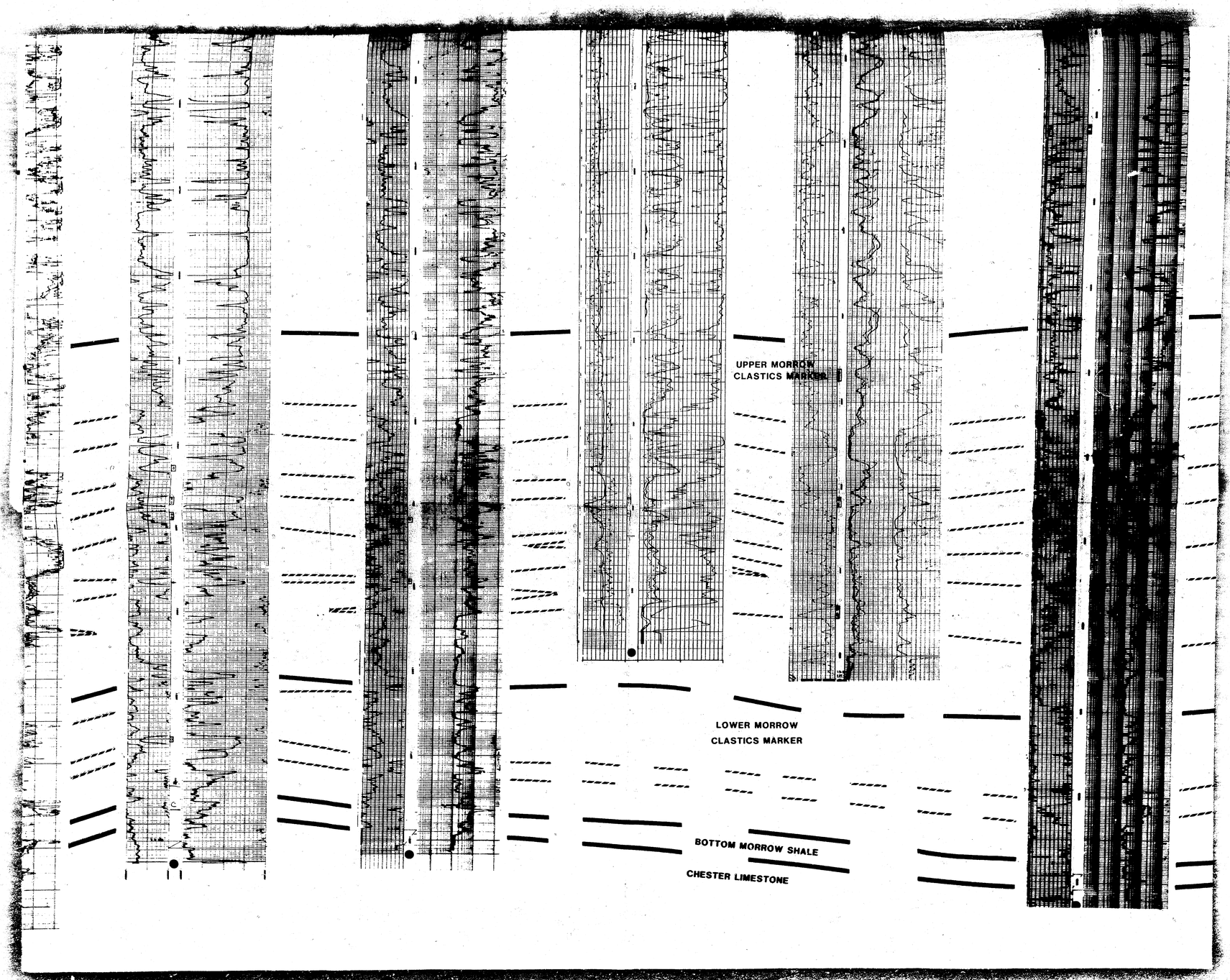
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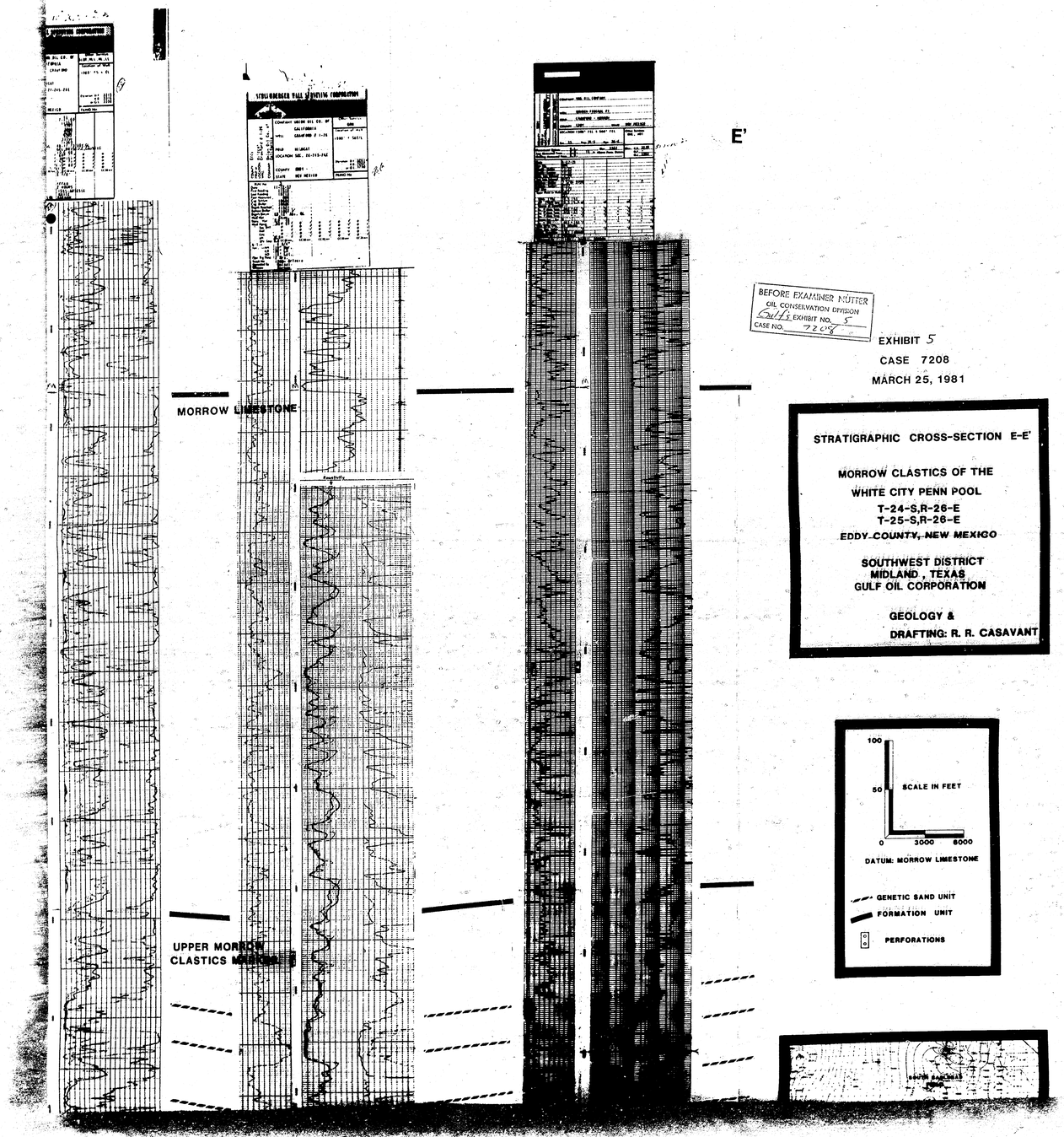
ET2270 EC

MORROW LIMESTONE

UPPER MORROW
CLASTICS

BEST AVAILABLE COPY


UPPER MORROW
CLASTICS MARKER
LOWER MORROW
CLASTICS MARKER
BOTTOM MORROW SHALE
CHESTER LIMESTONE



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 5
CASE NO. 7208

EXHIBIT 5
CASE 7208
MARCH 25, 1981

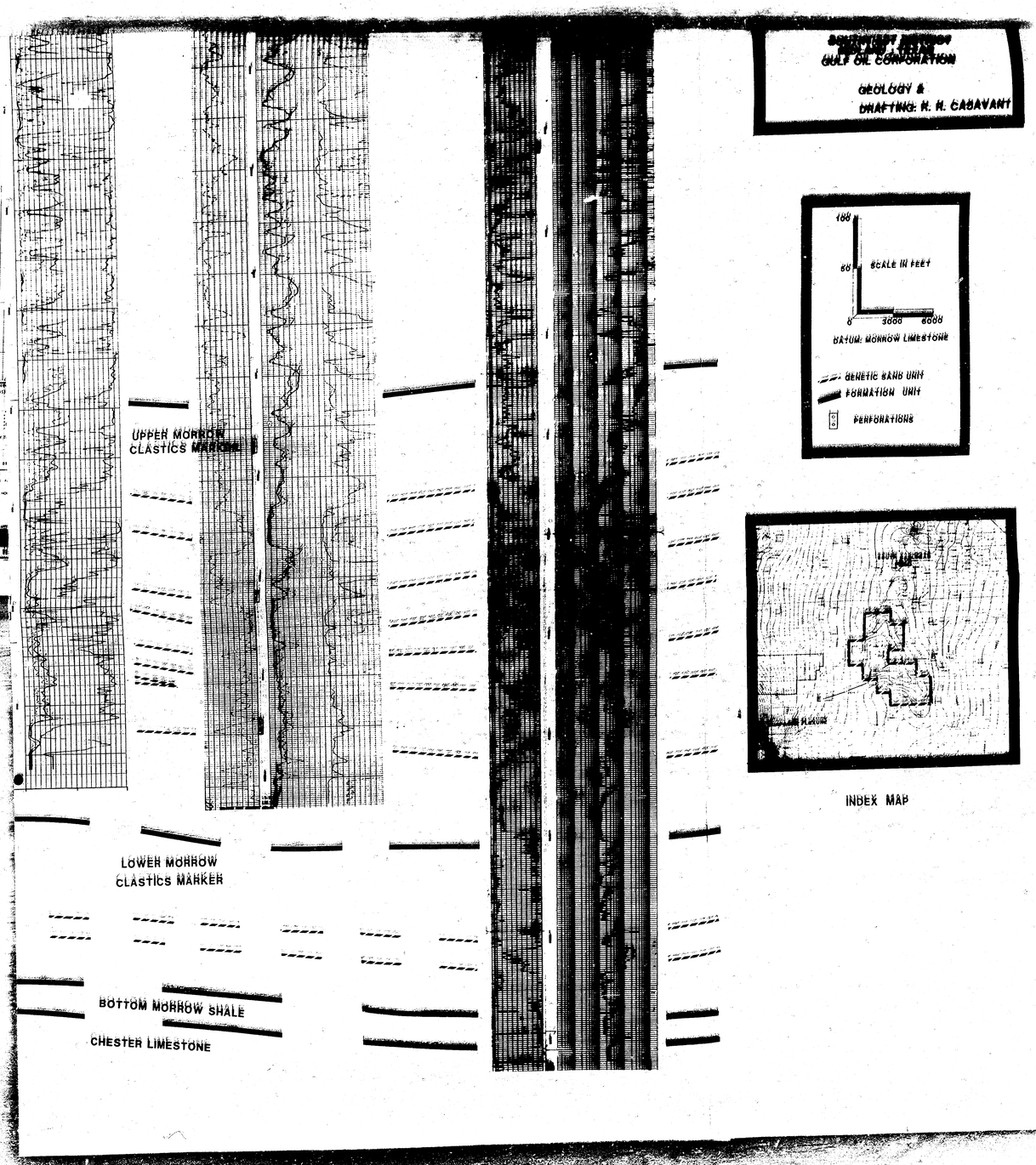
STRATIGRAPHIC CROSS-SECTION E-E'

MORROW CLASTICS OF THE
WHITE CITY PENN POOL
T-24-S,R-26-E
T-25-S,R-26-E
EDDY COUNTY, NEW MEXICO

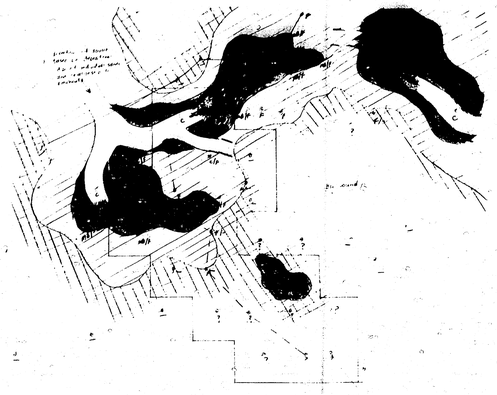
SOUTHWEST DISTRICT
MIDLAND, TEXAS
GULF OIL CORPORATION

GEOLOGY &
DRAFTING: R. R. CASAVANT

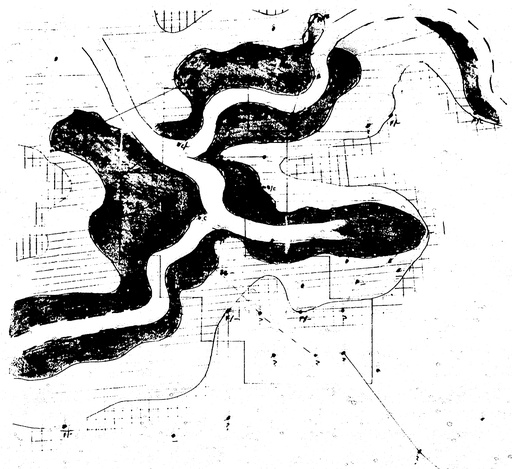




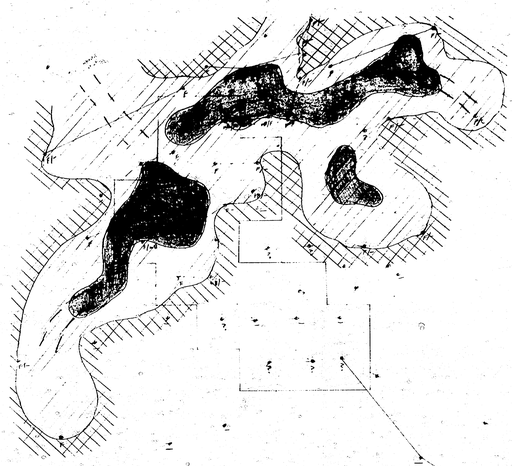
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BEST AVAILABLE COPY



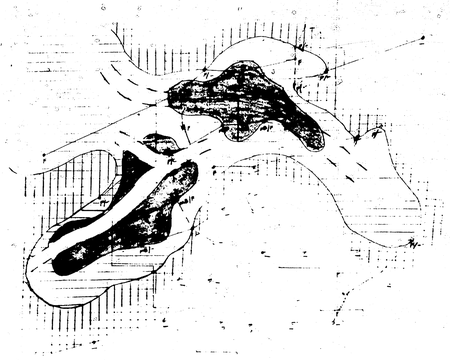
STAGE -A-



STAGE -B-



STAGE -C-



STAGE -D-



STAGE -E-



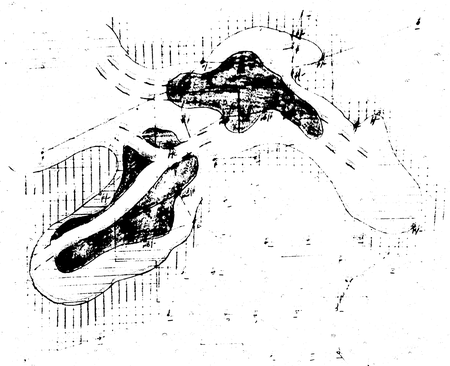
STAGE -F-

Sand H

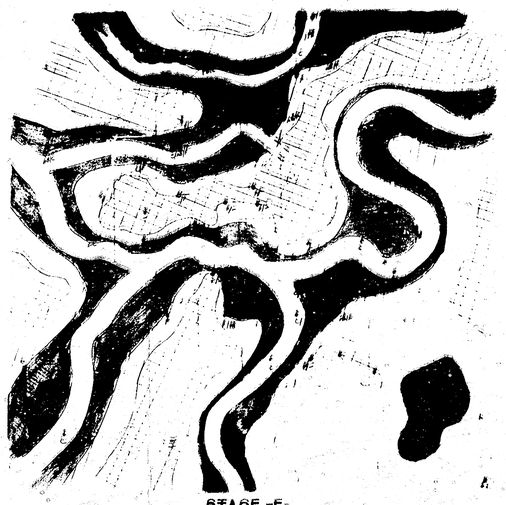
Sand G

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STAGE -A-



STAGE -B-



STAGE -C-



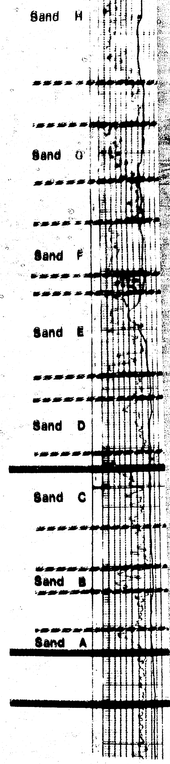
STAGE -D-



STAGE -E-



STAGE -F-



STAGE -G-

STAGE -H-

FLOW VIEW MODEL OF THE DEPOSITIONAL ENVIRONMENTS IN A DISTAL DELTAIC PLAIN SEQUENCE(SAND 'A'-B:,UPPER & LOWER MORROW) AS DETERMINED FROM E-LOG RESPONSE, SINGLE LOG.

WHITE CITY PENN GAS POOL
T-24-S R-28-E
EDDY CO., NEW MEXICO
R. R. CASAVANT

GULF OIL CORPORATION — SOUTHWEST DISTRICT
MIDLAND, TEXAS

LEGEND:

SCALE: 1" = 3000ft

WHITE CITY PENN GAS POOL BOUNDRY

A' — A — CROSS-SECTIONS

Most favorable area of massive sand accumulations exhibiting channel or quality coarsening or fining-upward sequences:-distributary mouth bars, channel mouth bars, tidal ridge bars, barrier bars, point-bars, etc.:

Interbedded sand and shale facies--marine-fringe sand bodies, coals, etc.:

Predominately marine or interdistributary shales, clays, and coal. Carbonate deposition throughout transgressive "pulse".

LOG RESPONSE (SP, GAMMA RAY, RESISTIVITY)

E — Massive sands; channel characteristics; sheet sands

PB — Point bar sequences: fining-upwards sequences

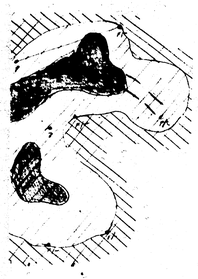
MB — Distributary mouth bar, barrier bar, tidal ridge bar, crevasse splay(subdeltaic) sands, flanking channel-bar sands: coarsening-upwards sequences

P — Marine-fringe sands: reworked sequences

= — Sand body not developed: all shale/carbonate embayment

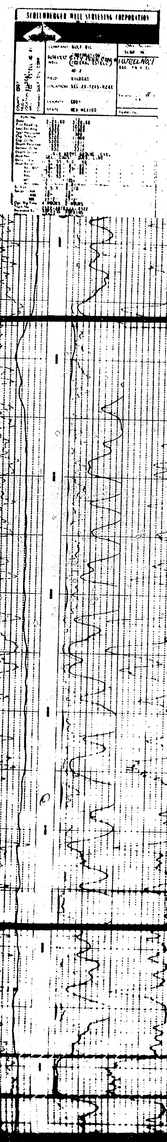
? — Interval not penetrated by borehole

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TYPE LOG

C 115.

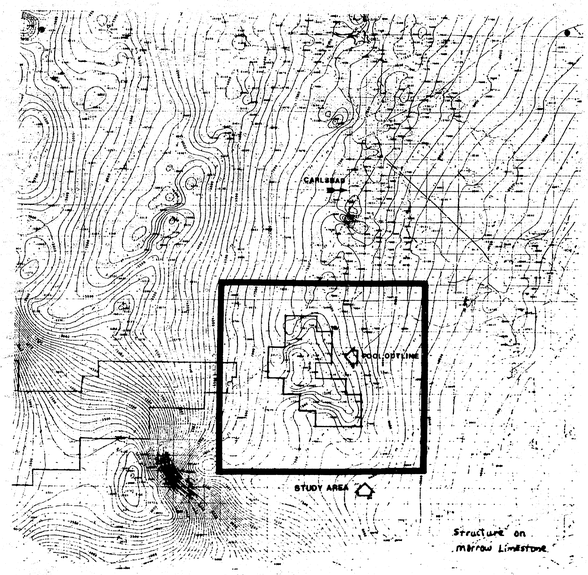


MORROW LIMESTONE

UPPER MORROW CLASTICS

Sand H

Sand G



INDEX MAP

EXHIBIT 6

CASE 7208

MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION



ISTAL DELTAIC
TERMINED FROM

ISTRICT
EXAS

A'

CROSS-SECTIONS

accumulations
ning or fining-
bars, channel
r bars, point-

erine-fringe

utary shales,
on throughout

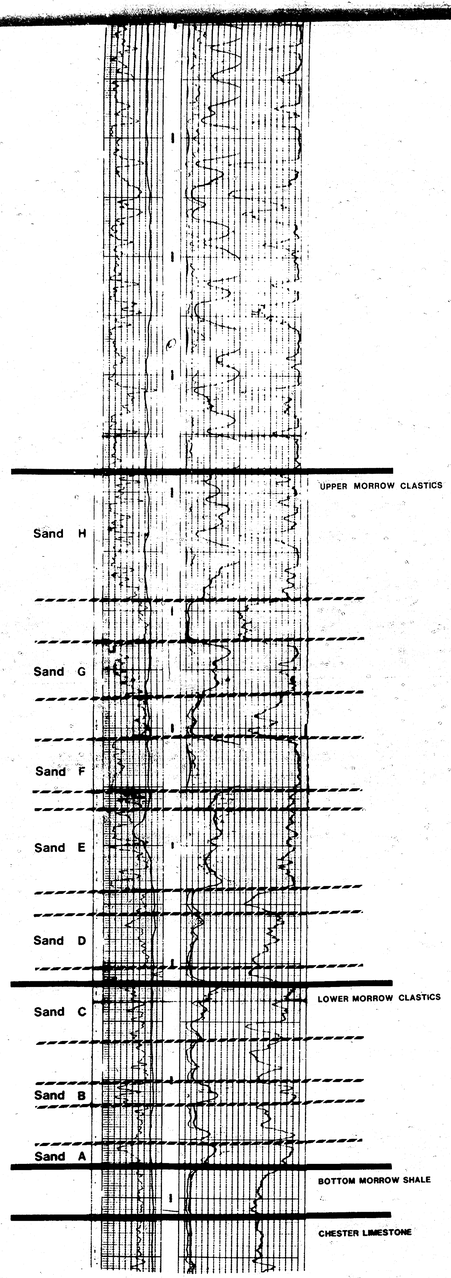
ics, sheet sands

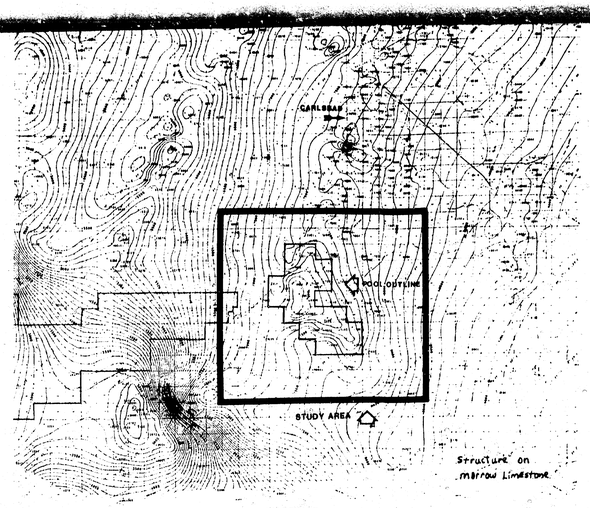
sequences

tidal ridge bar,
king channel-bar

nces

carbonate embayment





INDEX MAP

EXHIBIT 6

CASE 7208

MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION OF THE PENNSYLVANIAN MORROW CLASTICS IN THE WHITE CITY PENN GAS POOL, EDDY COUNTY, NEW MEXICO

GULF OIL CORPORATION — SOUTHWEST DISTRICT
MIDLAND, TEXAS

GEOLOGY & DRAFTING: R. R. CASAVANT

6

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 6
CASE NO. 7208

U.S.G.S. RECONNAISSANCE

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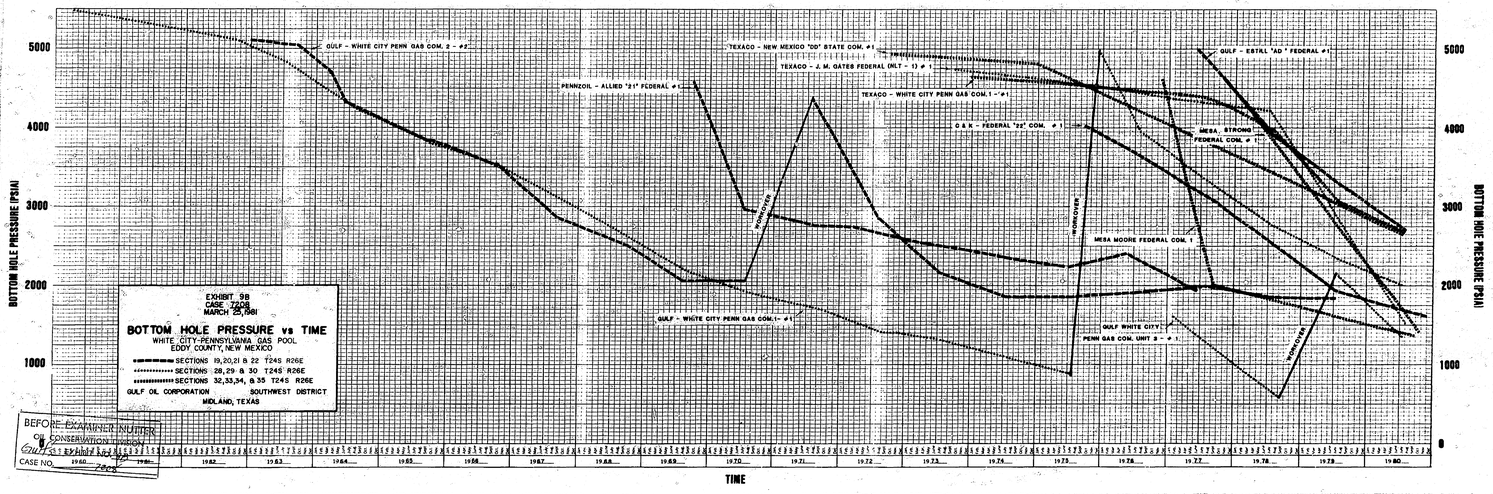


EXHIBIT 9B
CASE 7208
MARCH 25, 1981

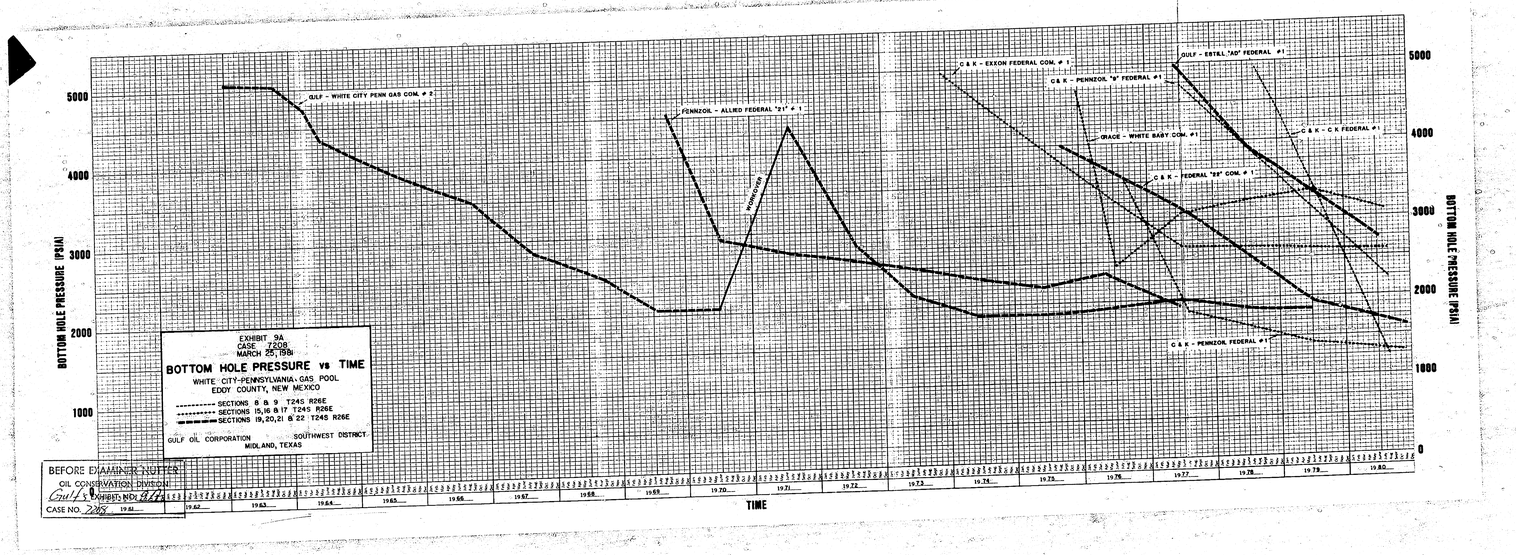
BOTTOM HOLE PRESSURE vs TIME
WHITE CITY-PENNSYLVANIA GAS POOL
EDDY COUNTY, NEW MEXICO

SECTIONS 19,20,21 & 22 T24S R26E
SECTIONS 28,29 & 30 T24S R26E
SECTIONS 32,33,34, & 35 T24S R25E

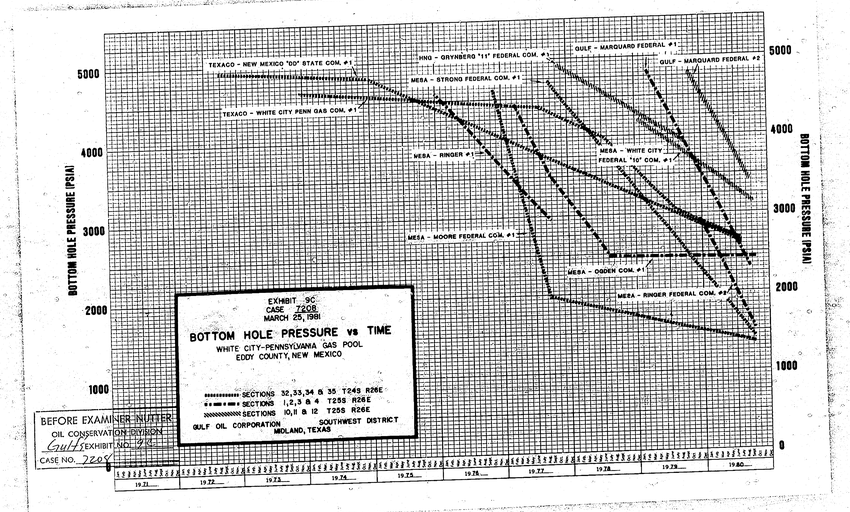
GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 9
CASE NO. 7208

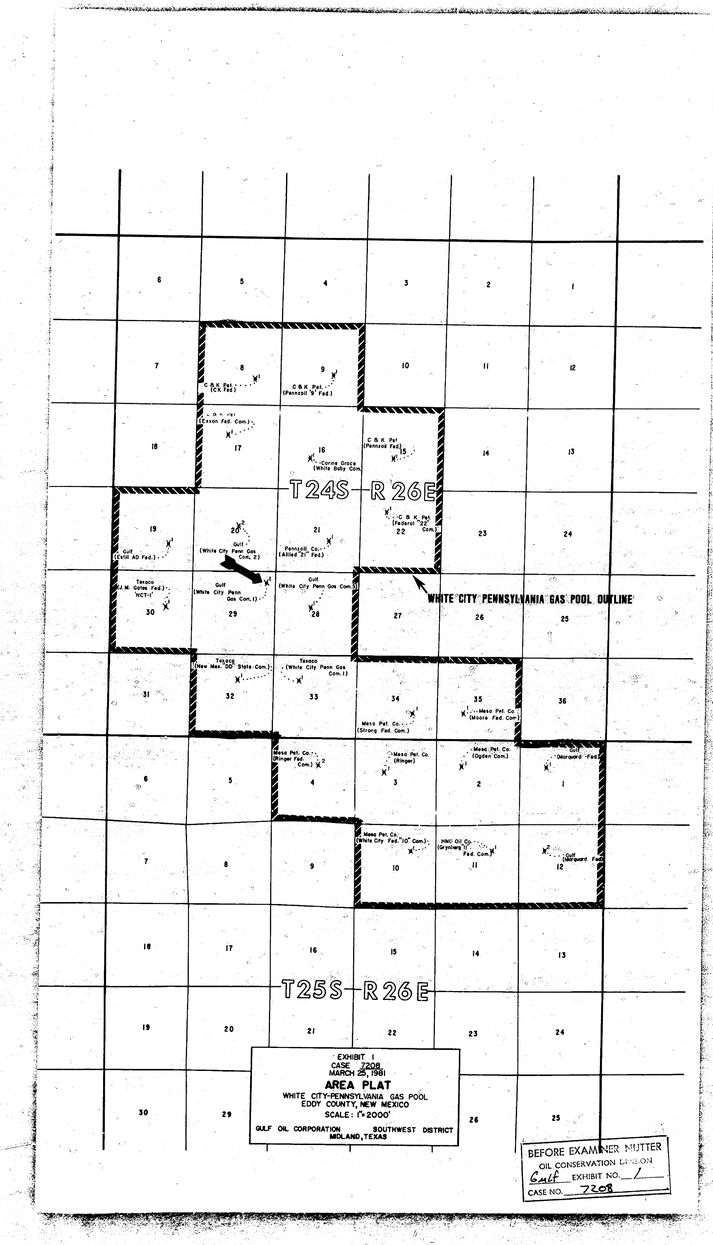




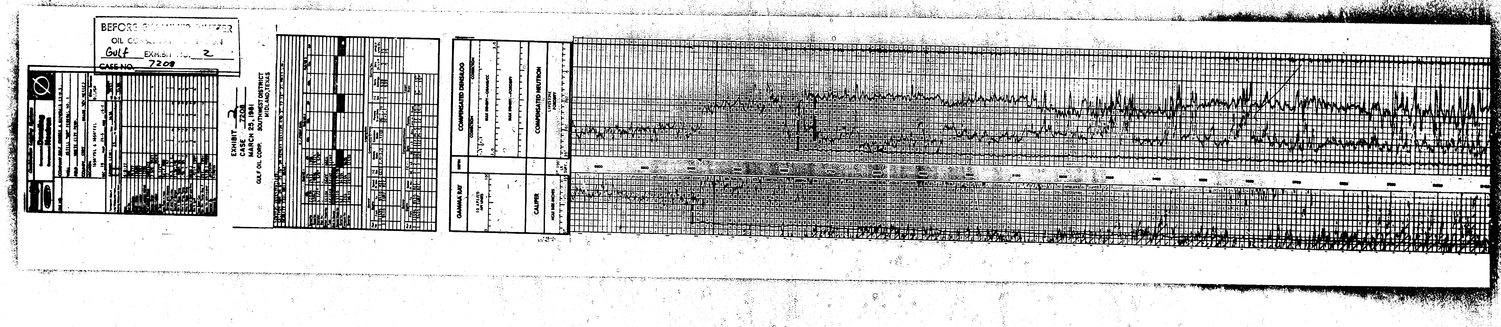
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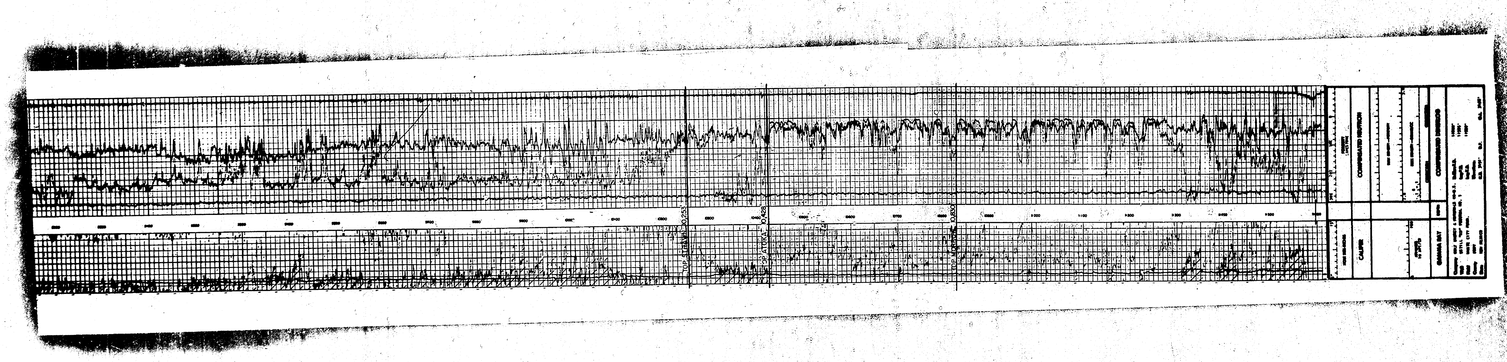

TEXACO - NEW MEXICO "CO" STATE COM. #1
TEXACO - WHITE CITY PENN GAS COM. #1
HNG - GRAYBERG "11" FEDERAL COM. #1
MESA - STRONG FEDERAL COM. #1
GULF - MARQUARD FEDERAL #1
GULF - MARQUARD FEDERAL #2
MESA - RINGER #1
MESA - WHITE CITY FEDERAL "14" COM. #1
MESA - MOORE FEDERAL COM. #1
MESA - ODDEN COM. #1
MESA - RINGER FEDERAL COM. #2
BOTTOM HOLE PRESSURE (PSIA)
5000
4000
3000
2000
1000
0
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
EXHIBIT 9C
CASE 7208
MARCH 25, 1981
BOTTOM HOLE PRESSURE vs TIME
WHITE CITY-PENNSYLVANIA GAS POOL
EDDY COUNTY, NEW MEXICO
SECTIONS 32,33,34 & 35 T24S R26E
SECTIONS 1,2,3 & 4 T25S R26E
SECTIONS 10,11 & 12 T25S R26E
GULF OIL CORPORATION
SOUTHWEST DISTRICT
MIDLAND, TEXAS
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 9
CASE NO. 7208

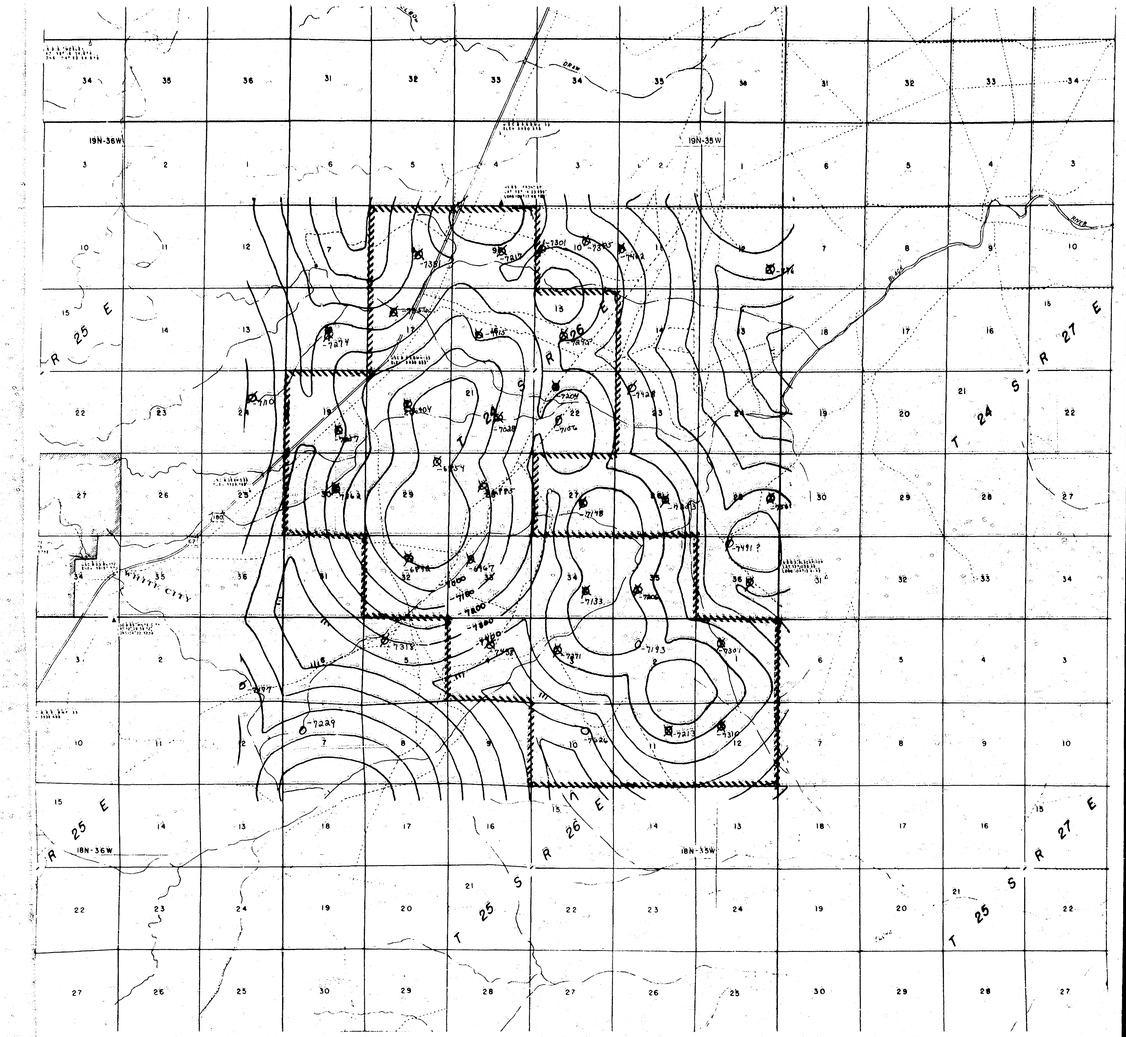

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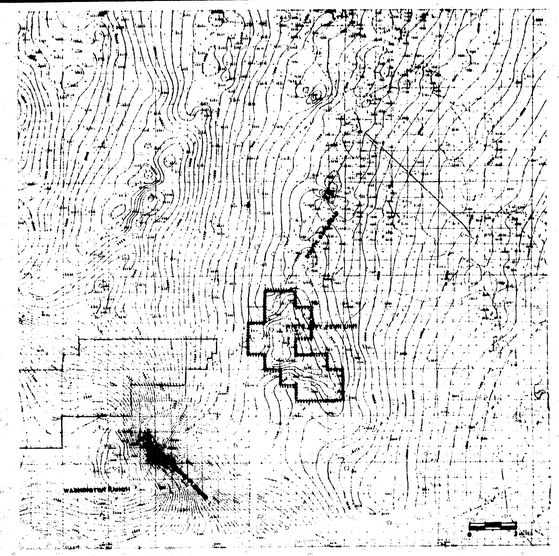

T24S—R 26E
T25S—R 26E
C & K Pet. (CK Fed)
C & K Pet. (Pennzoil 9 Fed.)
Exxon (Exxon Fed. Com.)
C & K Pet (Pennzoil Fed.)
Corine Grace (White Baby Com.
C & K Pet (Federal "22" Com.)
Gulf (Estill AD Fed.)
Gulf (White City Penn Gas Com. 2)
Pennzoil Co. (Allied "21" Fed.)
Texaco (J.M. Gates Fed.) - NCT-1
Gulf (White City Penn Gas Com.1)
Gulf (White City Penn Gas Com.)
WHITE CITY PENNSYLVANIA GAS POOL OUTLINE
Texaco (New Mex. "DC" State Com.)
Texaco - (White City Penn Gas Com.1)
Meso Pet. Co. (Strong Fed. Com.)
Meso Pet Co (Moore Fed. Com)
Meso Pet. Co. (Ringer Fed. Com.)
Meso Pet. Co. (Ringer)
Meso Pet. Co. (Ogden Com.)
Gulf (Barnard Fed.)
Meso Pet. Co. (White City Fed."10" Com.)
HNG Oil Co (Grynberg "3" Fed. Com.)
Gulf (Barnard Fed.)
EXHIBIT 1
CASE 7208
MARCH 25, 1981
AREA PLAT
WHITE CITY-PENNSYLVANIA GAS POOL
EDDY COUNTY, NEW MEXICO
SCALE: 1"= 2000'
GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 1
CASE NO. 7208


U.S.B.L.M. RECORDS FACE
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BEFORE EXAMINER STAMPER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 2
CASE NO. 7208
EXHIBIT 2
CASE MARCH 25, 1981
GULF OIL CORP. MIDLAND DISTRICT
MIDLAND, TEXAS
COMPENSATED DENSILOG
COMPENSATED NEUTRON
GAMMA RAY
CALIPER







INDEX MAP

EXHIBIT 3
CASE 7208
MARCH 25, 1981

GULF OIL CORPORATION
WHITE CITY PENN GAS POOL
EDDY COUNTY, NEW MEXICO

STRUCTURAL CONTOURS ON ~~CHESTER~~ Morrow LIMESTONE

CONTOUR INTERVAL = 100ft

UNIT OUTLINE

SCALE IN FEET

0 3000 6000

Ø DRY HOLE

GAS PRODUCER

ABANDONED PRODUCER

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 3
CASE NO. 7208

GEOLOGY: R. R. CASAVANT

U.S.G.S. RECORDS
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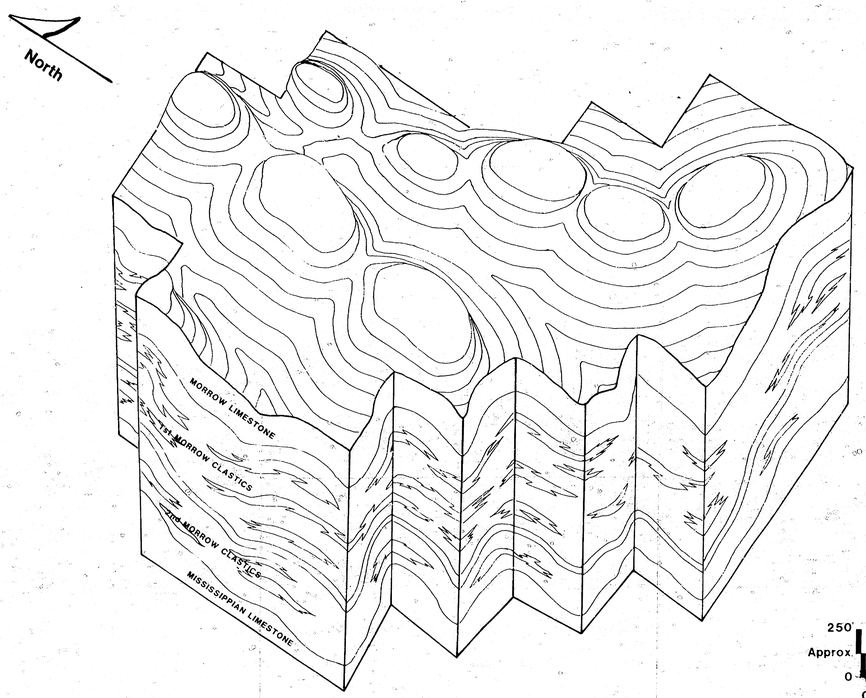


EXHIBIT 4
CASE 7208
MARCH 25,1981

3-DIMENSIONAL STRUCTURAL-STRATIGRAPHIC OVERVIEW

WHITE CITY PENN. POOL

T-24-S R-26-E

T-25-S R-26-E

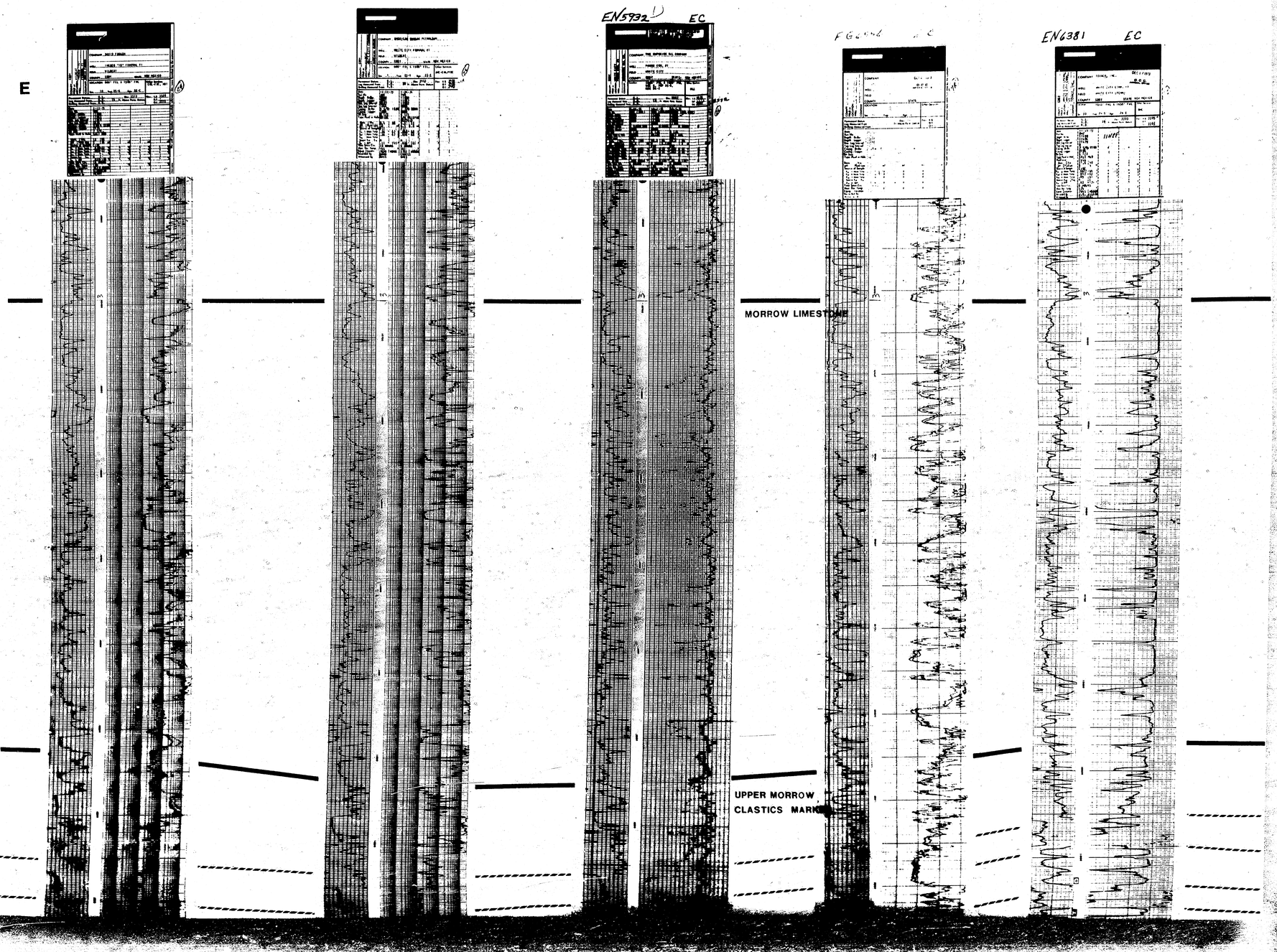
EDDY CO., NEW MEXICO

GEOLOGY: R. R. CASAVANT
GULF OIL CORPORATION

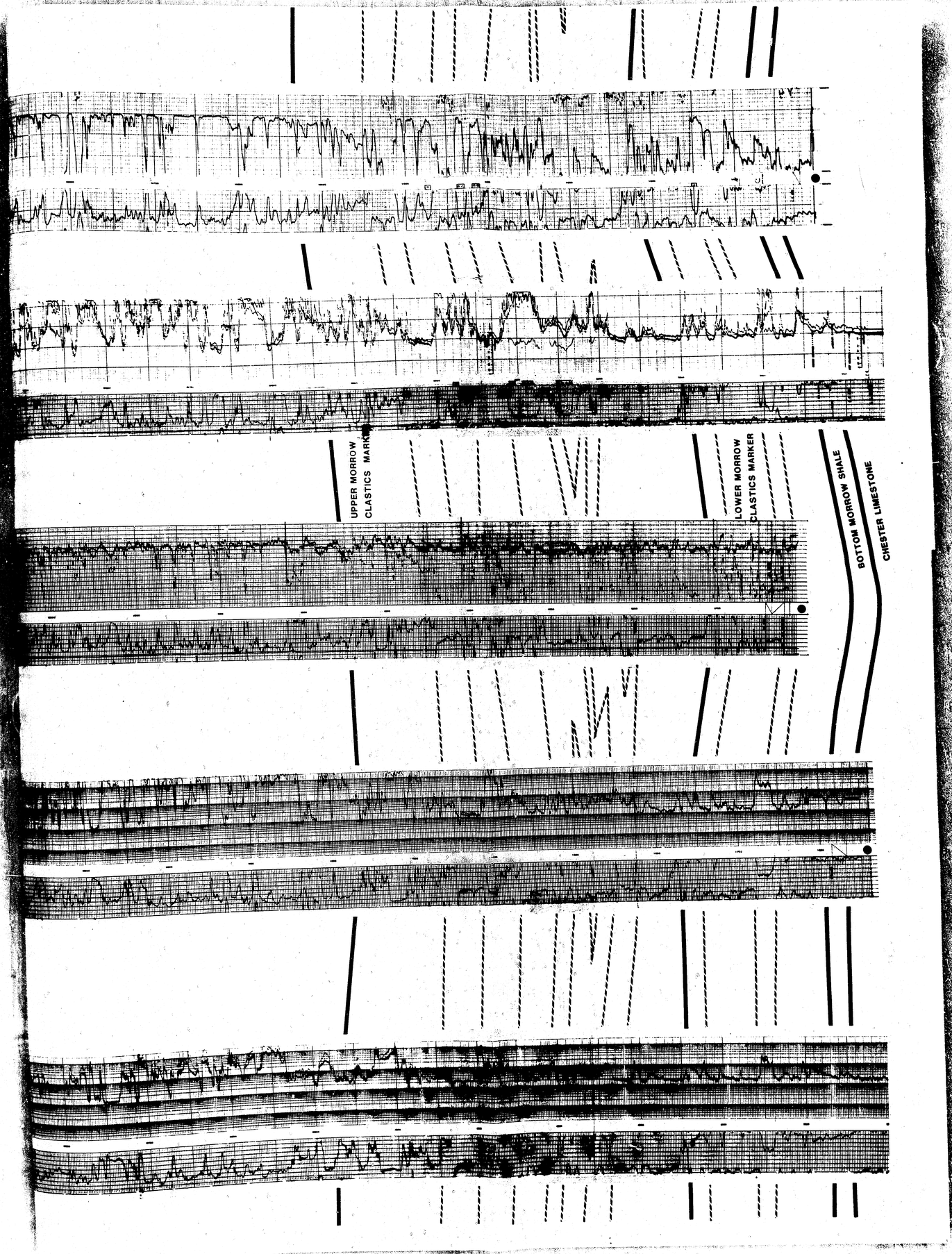
BEFORE EXAMINER UTTER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 4
CASE NO. 7208

SOUTHWEST DISTRICT
MIDLAND, TEXAS




E
EN5932
EC
MORROW LIMESTONE
UPPER MORROW
CLASTICS MARK
EN6381
EC


W.R.D.C.P. MICROFICHE
BEST AVAILABLE COPY


UPPER MORROW CLASTICS MARKER
LOWER MORROW CLASTICS MARKER
BOTTOM MORROW SHALE
CHESTER LIMESTONE

ET-2240 EC

A

B

E'

MORROW LIMESTONE

UPPER MORROW CLASTICS MARKER

BEFORE EXAMINER HUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 5
CASE NO. 7208

EXHIBIT 5
CASE 7208
MARCH 25, 1981

STRATIGRAPHIC CROSS-SECTION E-E'

MORROW CLASTICS OF THE
WHITE CITY PENN POOL
T-24-S,R-26-E
T-25-S,R-26-E
EDDY COUNTY, NEW MEXICO

SOUTHWEST DISTRICT
MIDLAND, TEXAS
GULF OIL CORPORATION

GEOLOGY &
DRAFTING: R. H. CASAVANT

100
50
SCALE IN FEET
0 3000 6000

DATUM: MORROW LIMESTONE

GENETIC BAND UNIT

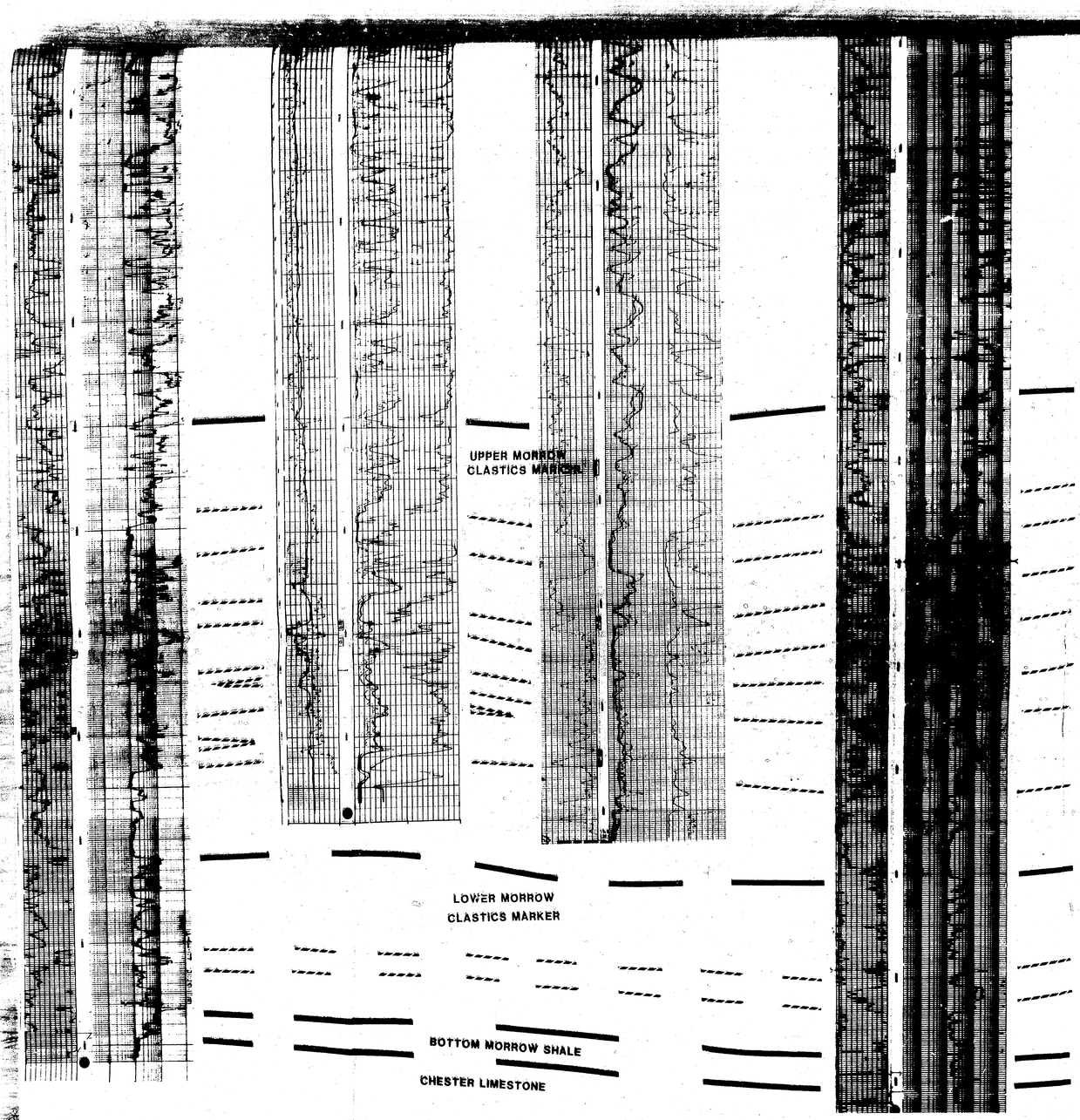
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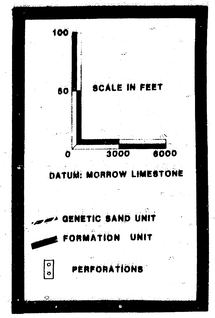
PERFORATIONS

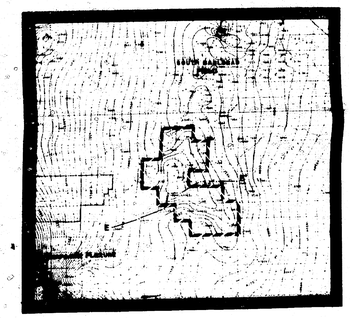
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SOUTHWEST DISTRICT
MIDLAND, TEXAS
GULF OIL CORPORATION

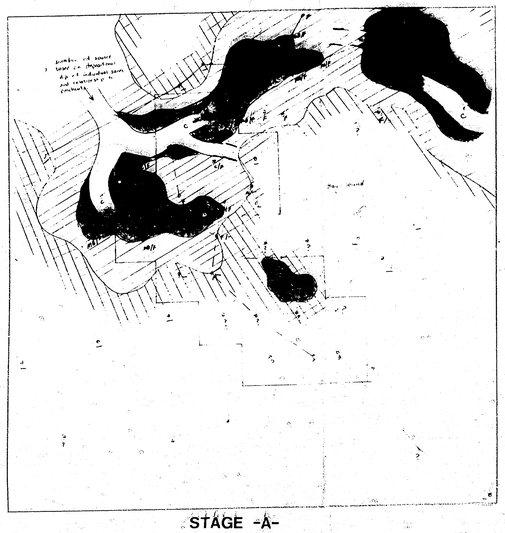
GEOLOGY &
DRAFTING: R. R. CASAVANT







INDEX MAP



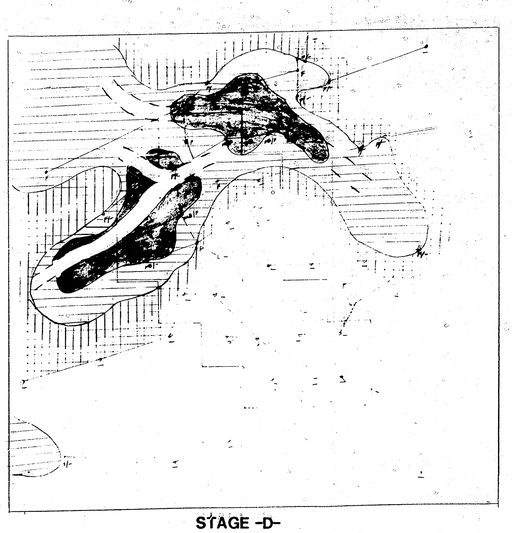
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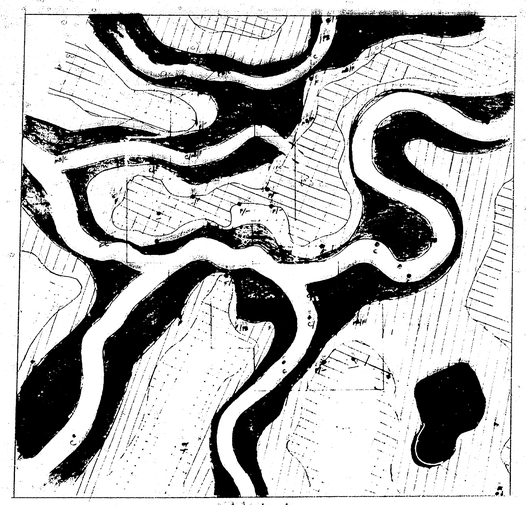
STAGE -B-



STAGE -C-



STAGE -D-

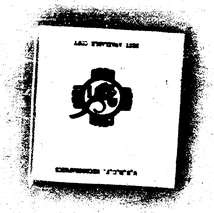


STAGE -E-



STAGE -F-

BEST AVAILABLE COPY



WHITE CITY PENN GAS POOL
T-24-S R-26-E
EDDY CO., NEW MEXICO
R. R. CASAVANT
GULF OIL CORPORATION SOUTHWEST MIDLAND

LEGEND:

SCALE: 1" = 3000ft

WHITE CITY PENN GAS POOL BOUNDRY

Most favorable area of massive and/or interbedded channel or quality coarse upward fluvial-distributary mouth bars, tidal ridge sand, barrier bars, etc...

Interbedded sand and shale facies- sand bodies, scale, etc...

Predominately marine or interdistributary clays, and coal. Calcareous deposits transgressive "points".

LOG RESPONSE (SP, GAMMA RAY, RESISTIVITY)

C Massive sandal channel characteristic

PB Point bar sequences: fining-upward

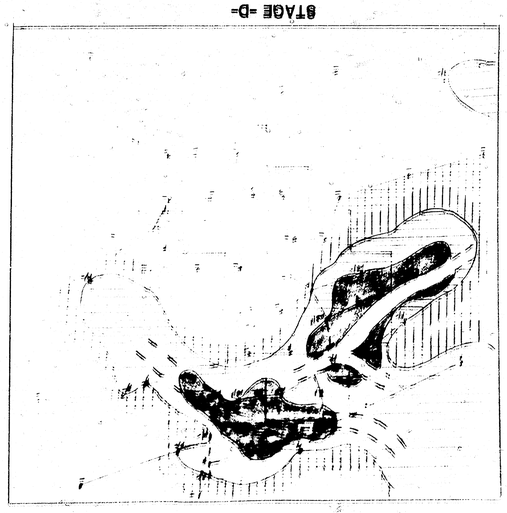
BB Distributary mouth bar, barrier bar, crevasse splay(subtidal) sands, interdistributary sands, coarsening-upward sequences

P Marine-ridge sands: reworked sands

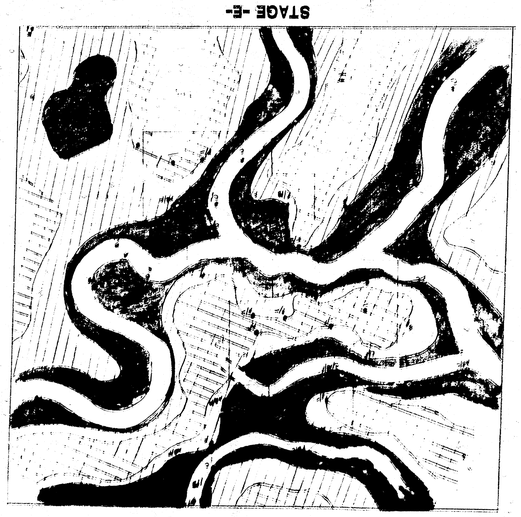
-- Sand body not developed: all shale

? Interval not penetrated by borehole

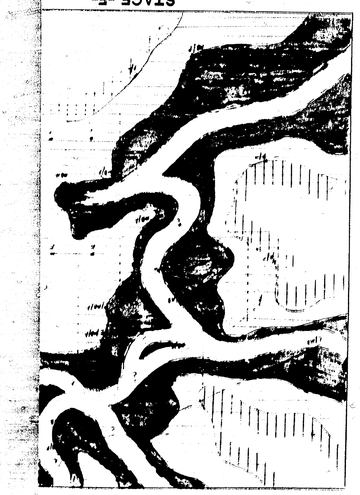
STAGE -A-



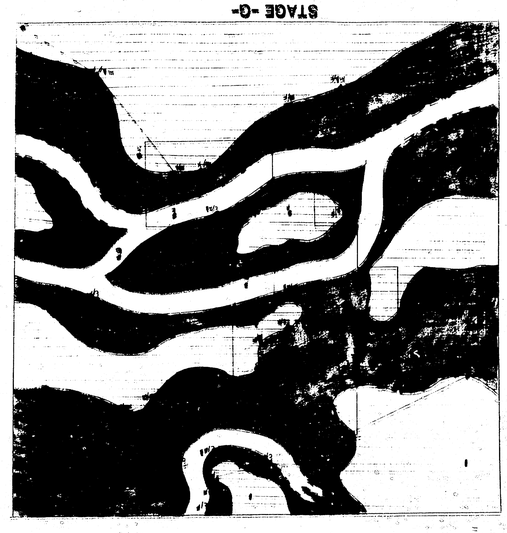
STAGE -B-



STAGE -C-



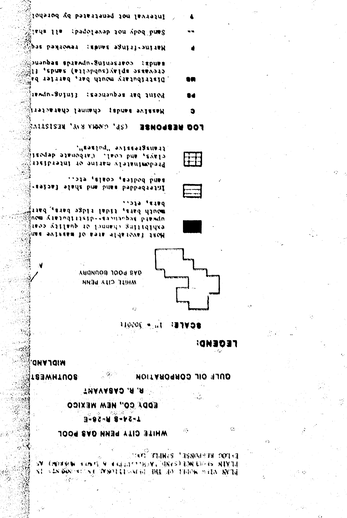
STAGE -D-

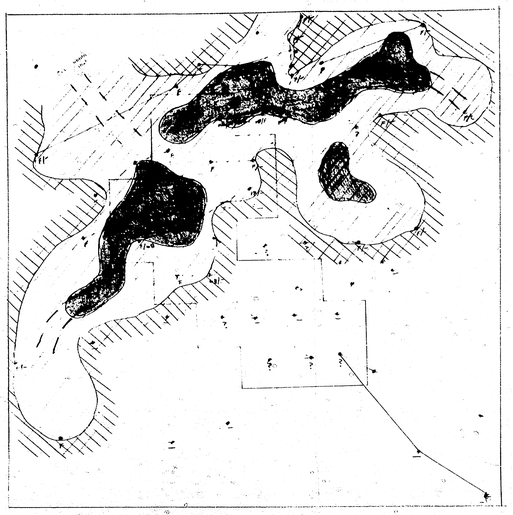


STAGE -E-



STAGE -F-



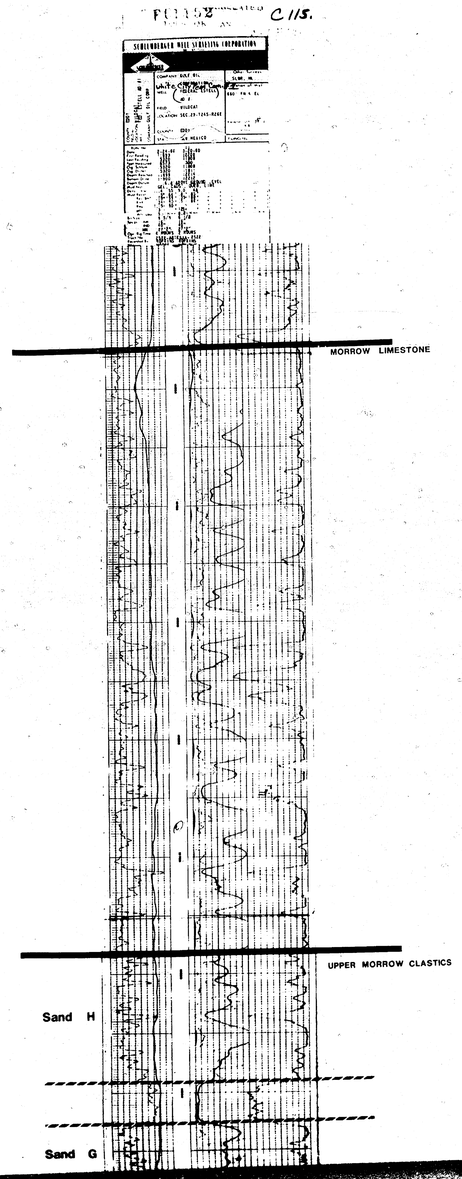


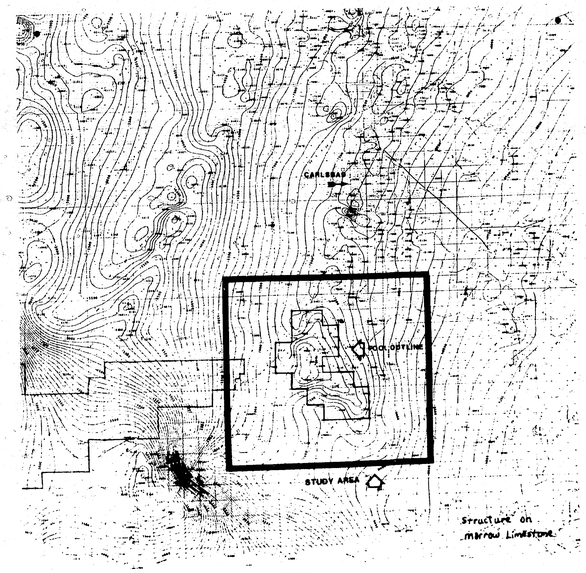
STAGE -C-



STAGE -F-

TYPE LOG





INDEX MAP

EXHIBIT 6

CASE 7208

MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION

U.S.G.S. RECONNAISSANCE

BEST AVAILABLE COPY

STAGE -C-



STAGE -F-

PLAN VIEW MODEL OF THE DEPOSITIONAL ENVIRONMENT IN A STRANDPLAIN/DELTAIC PLAIN SEQUENCE (SAND DISTRIBUTION & GAMMA RESPONSE AS DETERMINED FROM E-LOG RESPONSE, SIMPLE LOG.

WHITE CITY PENN GAS POOL
T-24-S R-26-E
EDDY CO., NEW MEXICO
R. R. CASAVANT
GULF OIL CORPORATION — SOUTHWEST DISTRICT
MIDLAND, TEXAS

LEGEND:

SCALE: 1" = 3000ft

WHITE CITY PENN GAS POOL BOUNDRY

A' — A — CROSS-SECTIONS

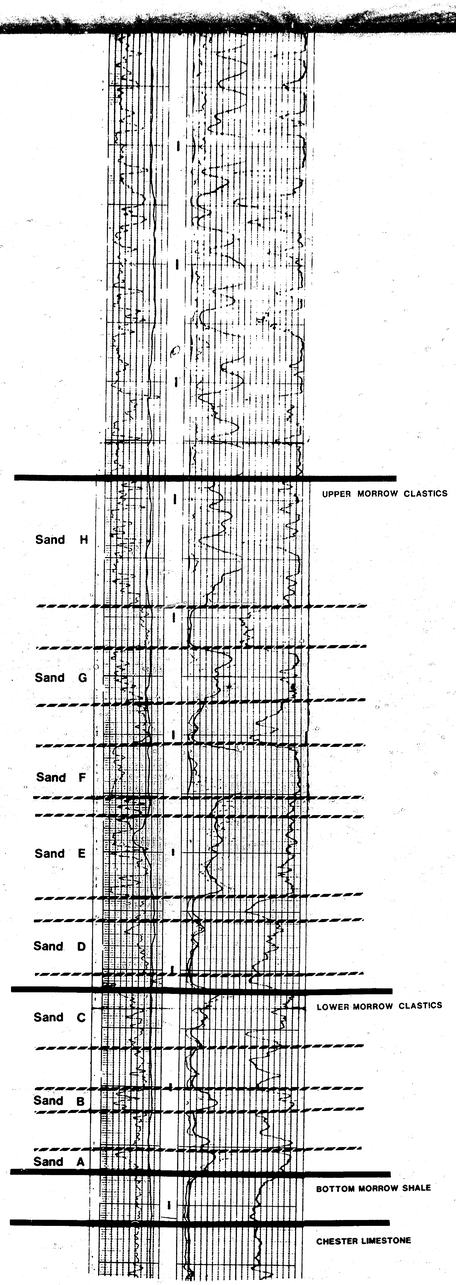
Most favorable area of massive sand accumulations exhibiting channel or quality coarsening or fining-upward sequences--distributary mouth bars, channel mouth bars, tidal ridge bars, barrier bars, point-bars, etc..

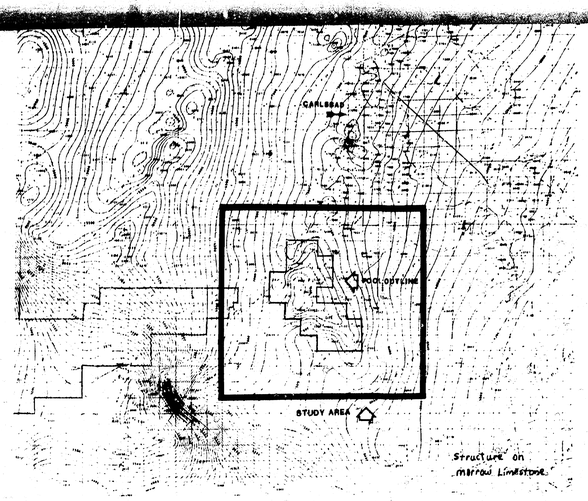
Interbedded sand and shale facies--marine-fringe sand bodies, coals, etc..

Predominately marine or interdistributary shales, clays, and coal. Carbonate deposition throughout transgressive "pulses".

LOG RESPONSE (SP, GAMMA RAY, RESISTIVITY)

C	Massive sands; channel characteristics, sheet sands
PB	Point bar sequences; fining-upwards sequences
MB	Distributary mouth bar, barrier bar, tidal ridge bar, crevasse splay(subdelta) sands, flanking channel-bar sands; coarsening-upwards sequences
F	Marine-fringe sands; reworked sequences
--	Sand body not developed; all shale/carbonate embayment
?	Interval not penetrated by borehole





INDEX MAP

EXHIBIT 6
CASE 7208
MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION

OF THE PENNSYLVANIAN MORROW CLASTICS

IN THE WHITE CITY PENN GAS POOL,

EDDY COUNTY , NEW MEXICO

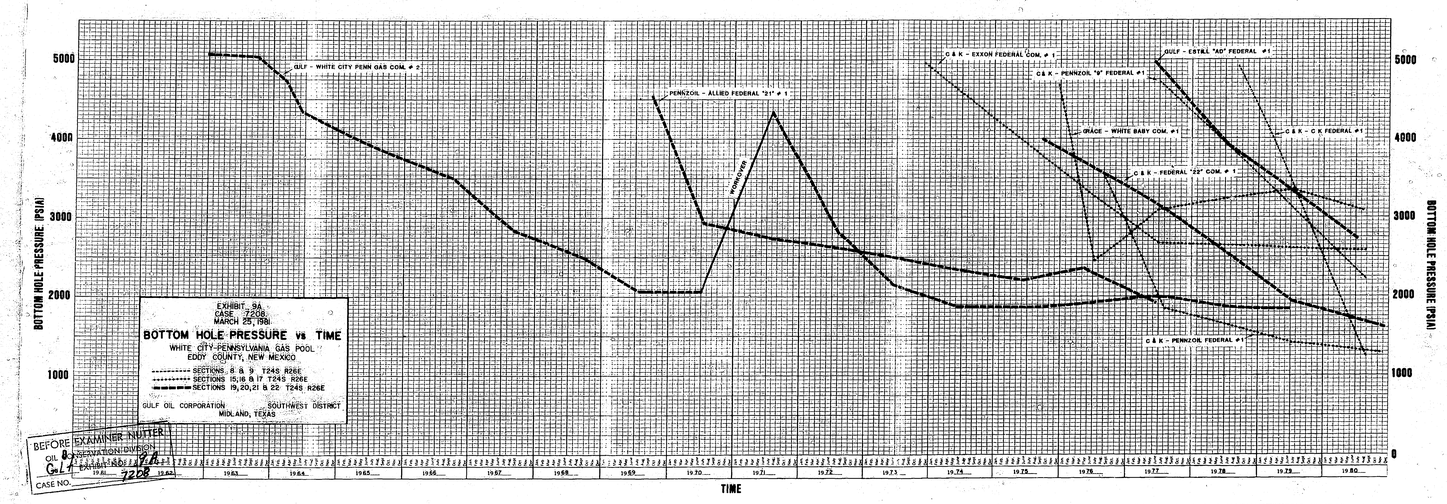
GULF OIL CORPORATION — SOUTHWEST DISTRICT
MIDLAND, TEXAS

GEOLOGY & DRAFTING: R. R. CASAVANT

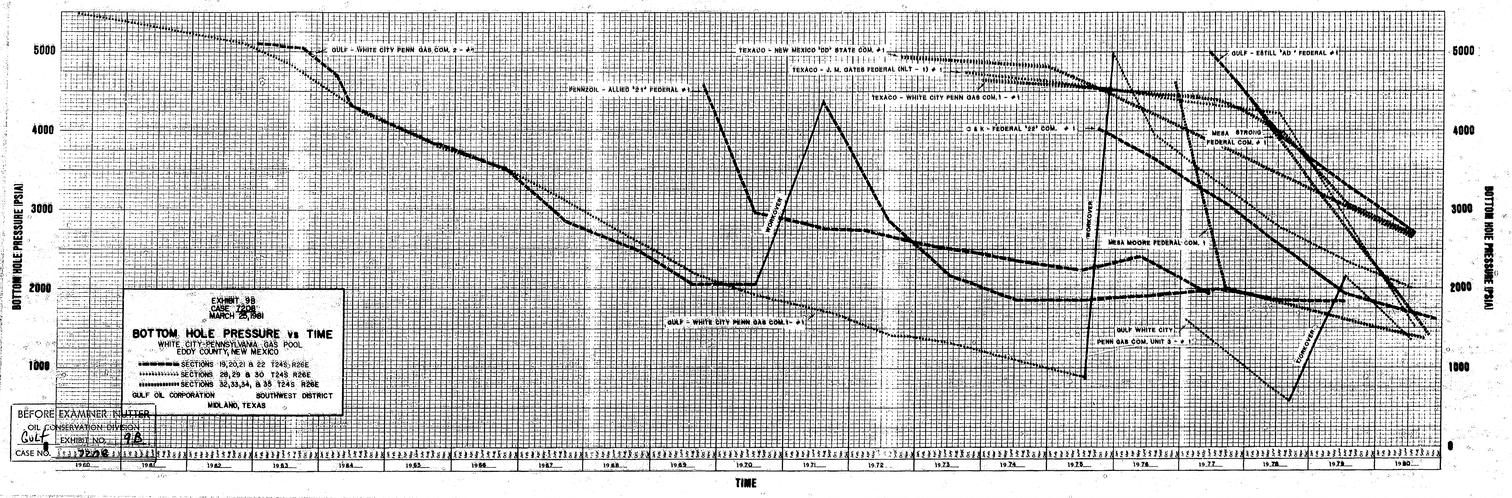
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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 6
CASE NO. 7208

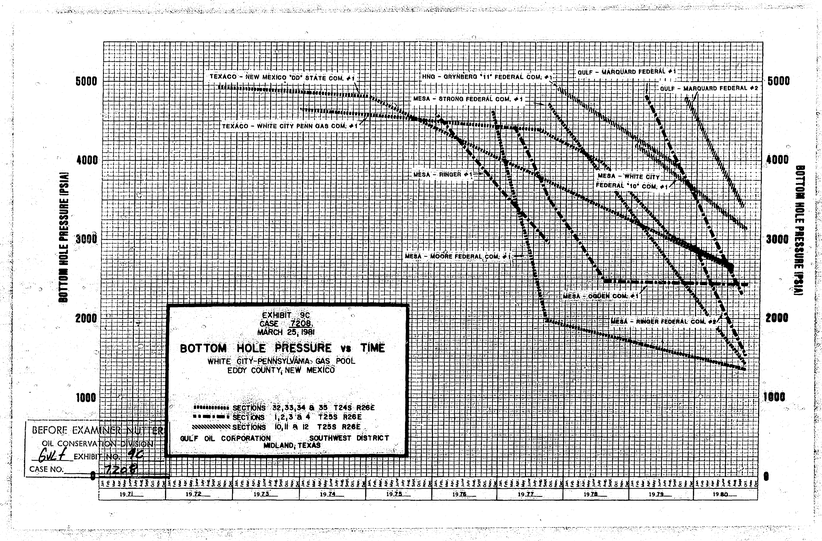




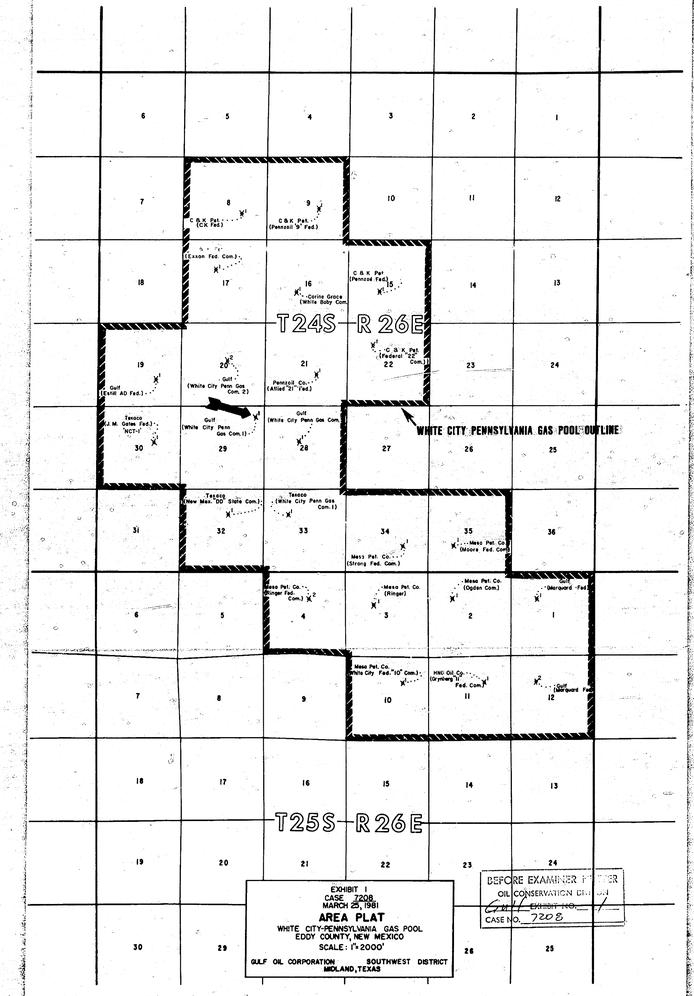
V.P.I.R.C.F. MICROGRAPHICS
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BOTTOM HOLE PRESSURE (PSIA)
5000
4000
3000
2000
1000
0
TIME
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
GULF - WHITE CITY PENN GAS COM. 2 - #1
PENNZOIL - ALLIED "21" FEDERAL #1
TEXACO - NEW MEXICO "DD" STATE COM. #1
TEXACO - A. M. GATES FEDERAL UNIT - 1 #1
TEXACO - WHITE CITY PENN GAS COM. 1 - #1
O & K - FEDERAL "10" COM. #1
GULF - ESTILL "AD" FEDERAL #1
MESA STROUD FEDERAL COM. #1
MESA MOORE FEDERAL COM. 1
GULF - WHITE CITY PENN GAS COM. 1 - #1
GULF WHITE CITY PENN GAS COM. UNIT 5 - #1
WORKOVER
WORKOVER
WORKOVER
CONVERT
EXHIBIT 9B
CASE 7208
MARCH 25, 1981
BOTTOM HOLE PRESSURE Vs TIME
WHITE CITY-PENNSYLVANIA GAS POOL
EDDY COUNTY, NEW MEXICO
SECTIONS 19,20,21 & 22 T24S, R26E
SECTIONS 28,29 & 30 T24S R26E
SECTIONS 32,33,34, & 35 T24S R26E
GULF OIL CORPORATION
SOUTHWEST DISTRICT
MIDLAND, TEXAS
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 9B
CASE NO. 7208


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U.S.G.S. RECORDS
BEST AVAILABLE COPY



U.S.G.S. RECORDS
BEST AVAILABLE COPY

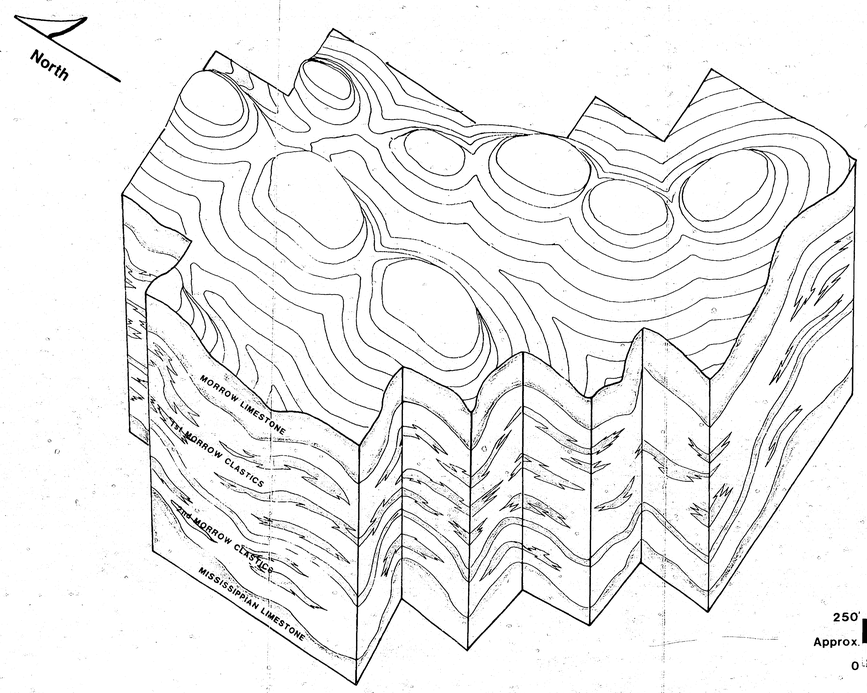


EXHIBIT 4
CASE 7208
MARCH 25,1981

3-DIMENSIONAL STRUCTURAL-STRATIGRAPHIC OVERVIEW

WHITE CITY PENN. POOL

T-24-S R-26-E

T-25-S R-26-E

EDDY CO., NEW MEXICO

GEOLOGY: R. R. CASAVANT
GULF OIL CORPORATION

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf's EXHIBIT NO. 4
CASE NO. 7208

SOUTHWEST DISTRICT
MIDLAND, TEXAS



E

EN5732 EC

FG6[illegible] EC

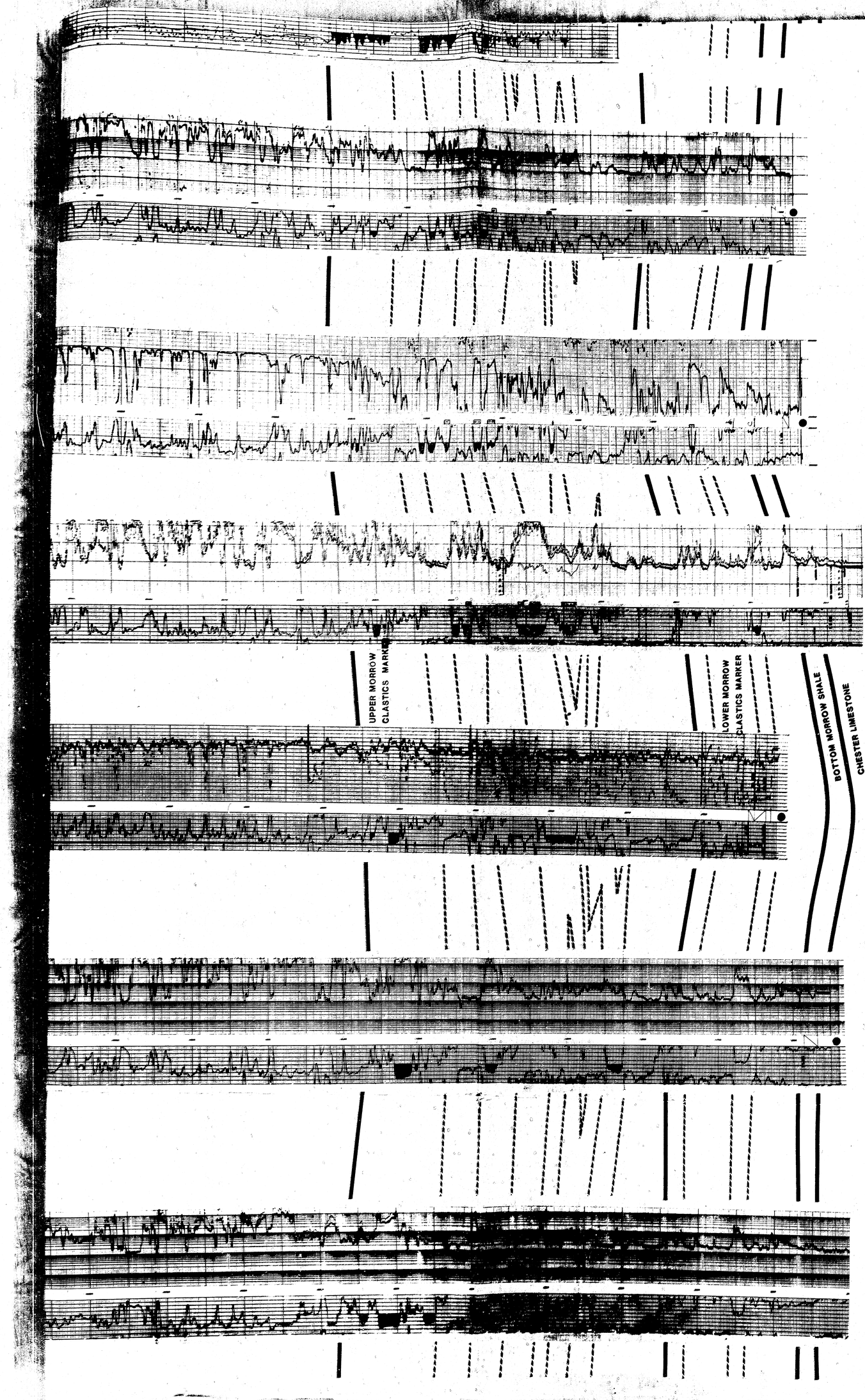
EN6381 EC

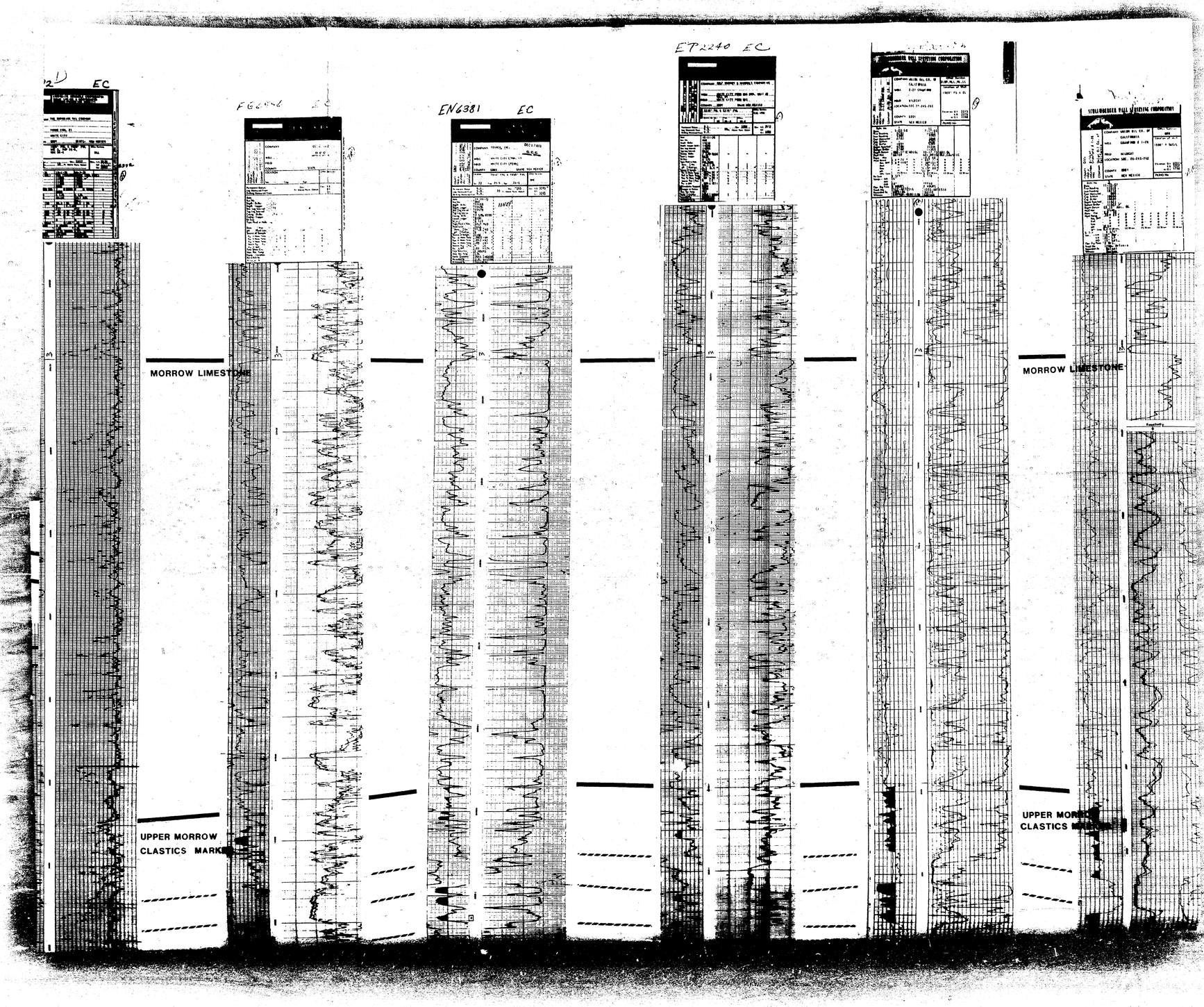
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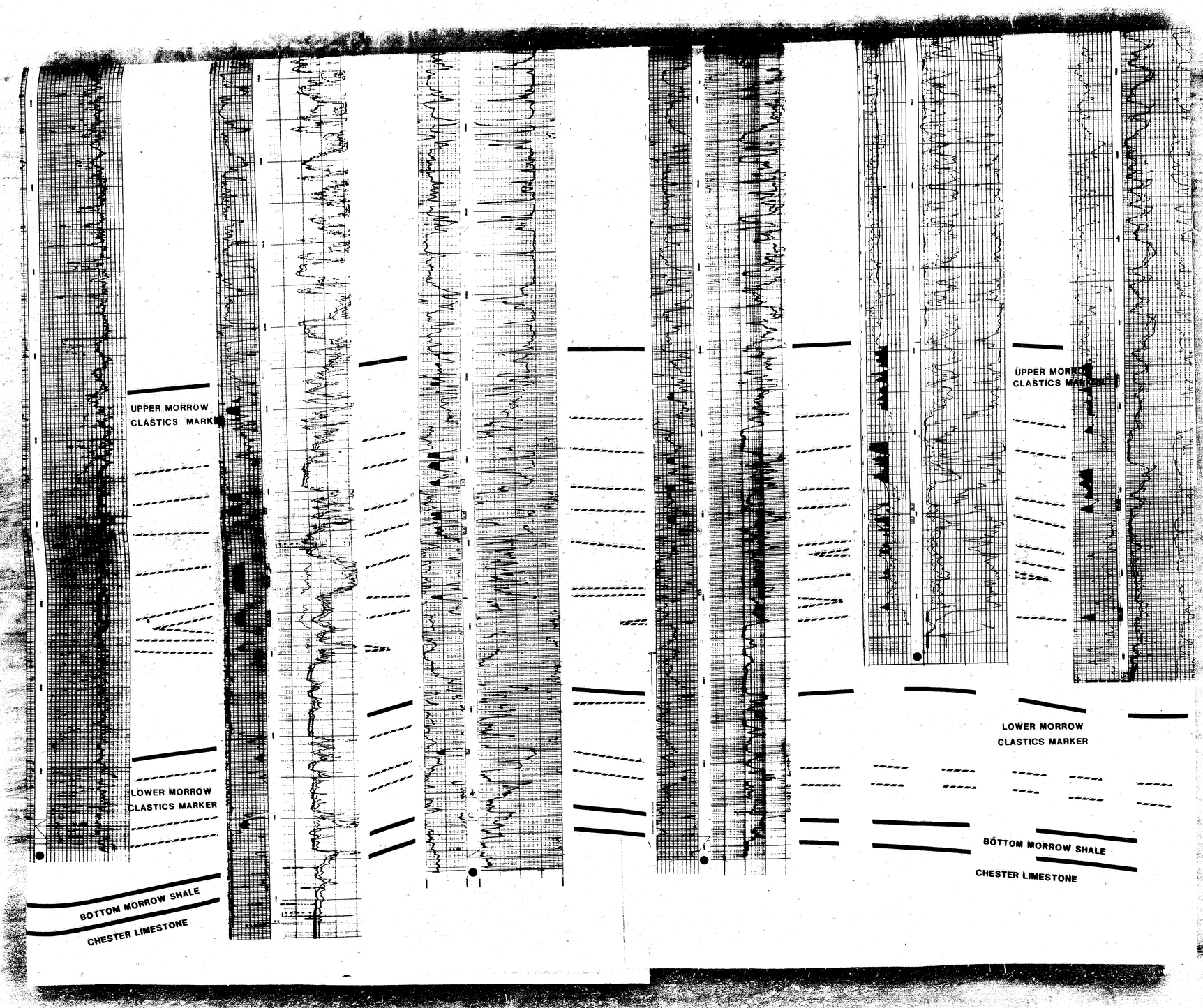
MORROW LIMESTONE

UPPER MORROW
CLASTICS MARKER

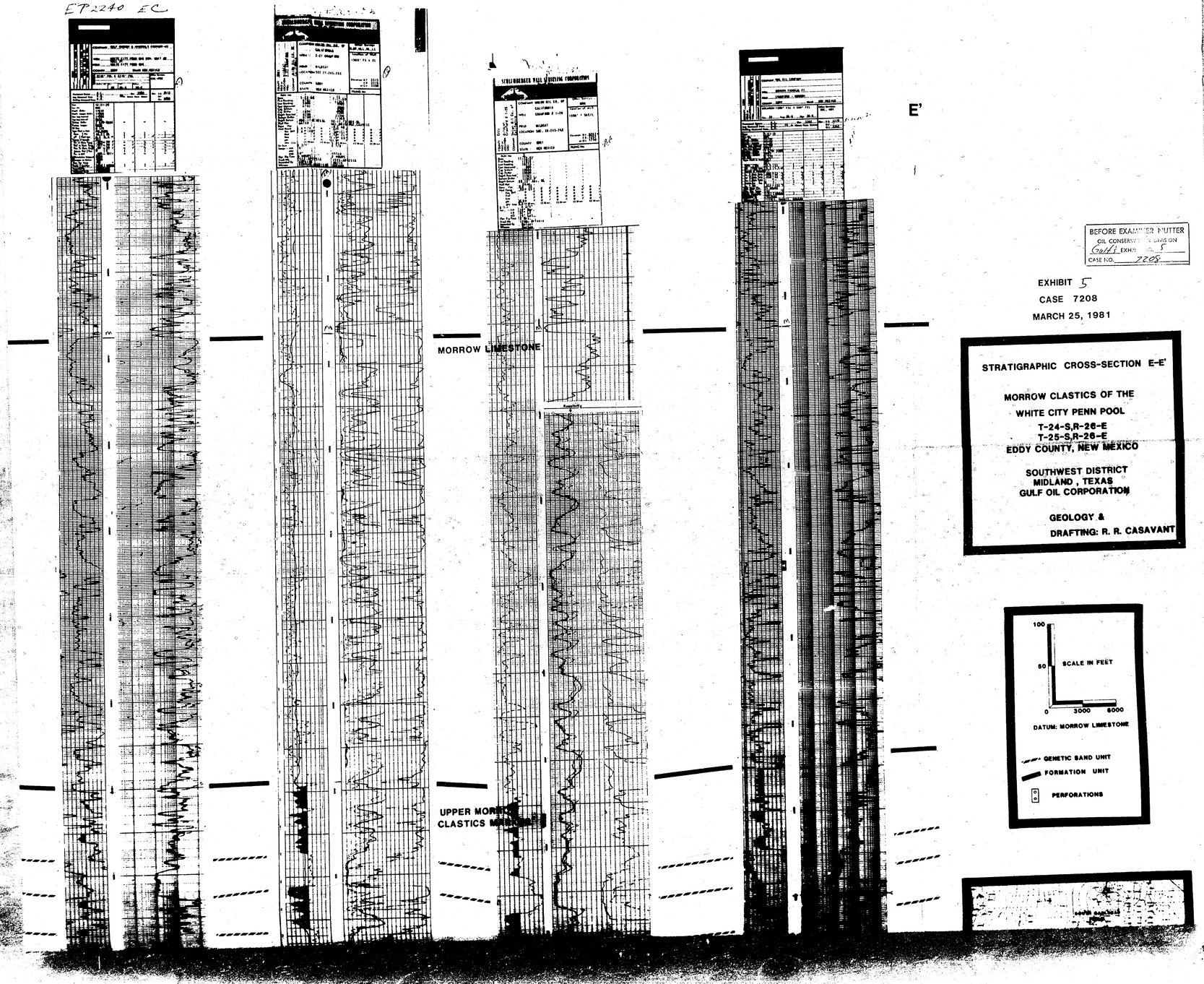
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UPPER MORROW CLASTICS MARKER
LOWER MORROW CLASTICS MARKER
BOTTOM MORROW SHALE
CHESTER LIMESTONE


EC
EC
EC
MORROW LIMESTONE
MORROW LIMESTONE
UPPER MORROW
CLASTICS MARK
UPPER MORR
CLASTICS


UPPER MORROW
CLASTICS MARKER
LOWER MORROW
CLASTICS MARKER
BOTTOM MORROW SHALE
CHESTER LIMESTONE
UPPER MORROW
CLASTICS MARKER
LOWER MORROW
CLASTICS MARKER
BOTTOM MORROW SHALE
CHESTER LIMESTONE

EP2240 EC



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf's EXHIBIT NO. 5
CASE NO. 7208

EXHIBIT 5
CASE 7208
MARCH 25, 1981

STRATIGRAPHIC CROSS-SECTION E-E'

MORROW CLASTICS OF THE WHITE CITY PENN POOL
T-24-S,R-26-E
T-25-S,R-26-E
EDDY COUNTY, NEW MEXICO

SOUTHWEST DISTRICT
MIDLAND, TEXAS
GULF OIL CORPORATION

GEOLOGY &
DRAFTING: R. R. CASAVANT

100
50
0
3000
6000
SCALE IN FEET

DATUM: MORROW LIMESTONE

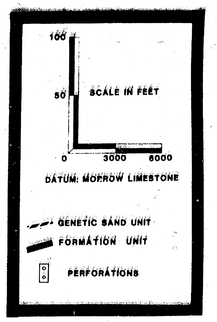
GENETIC SAND UNIT
FORMATION UNIT
PERFORATIONS

U.S.G.S. RECORDS
BEST AVAILABLE COPY

EDDY COUNTY, NEW MEXICO

SOUTHWEST DISTRICT
MIDLAND, TEXAS
GULF OIL CORPORATION

GEOLOGY &
DRAFTING: R. R. CASAVANT

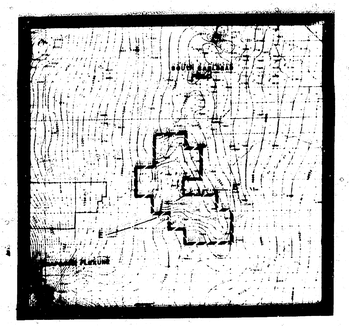


DATUM: MORROW LIMESTONE

GENETIC SAND UNIT

FORMATION UNIT

PERFORATIONS



INDEX MAP

UPPER MORROW
CLASTICS MARKER

LOWER MORROW
CLASTICS MARKER

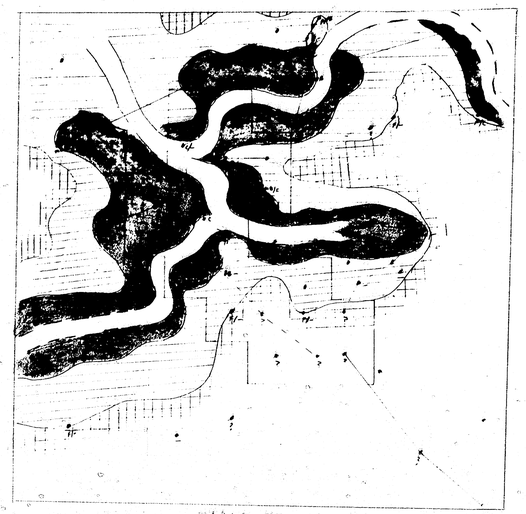
BOTTOM MORROW SHALE

CHESTER LIMESTONE





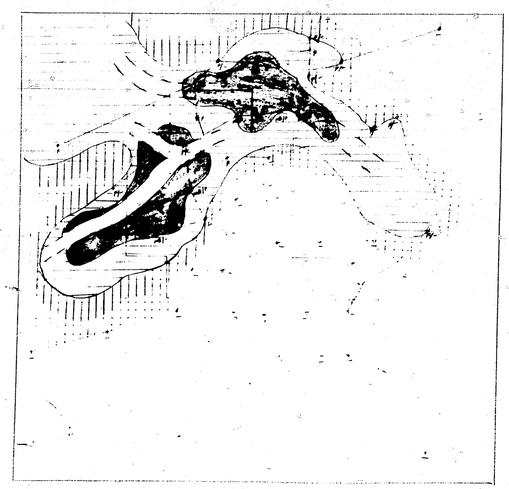
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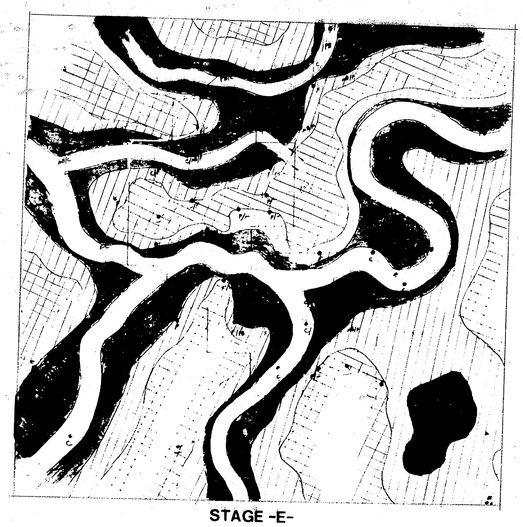
STAGE -B-



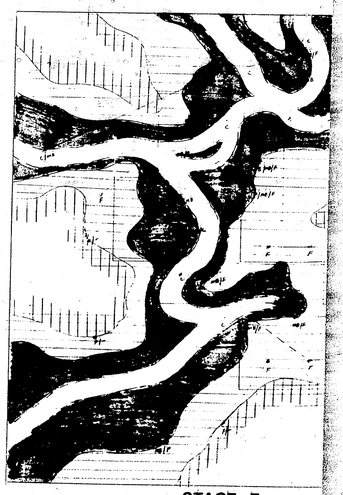
STAGE -C-



STAGE -D-



STAGE -E-



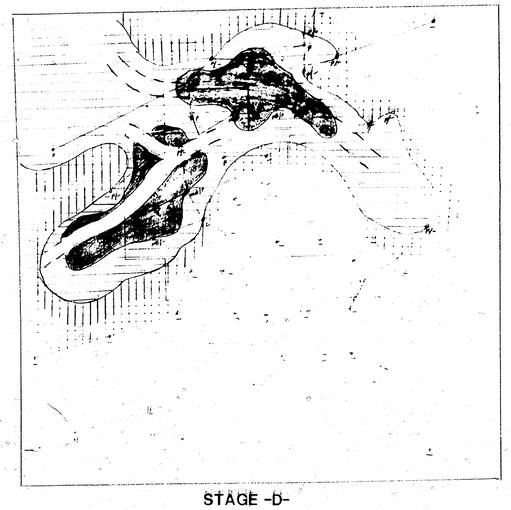
STAGE -F-



STAGE -A-

STAGE -B-

STAGE -C-



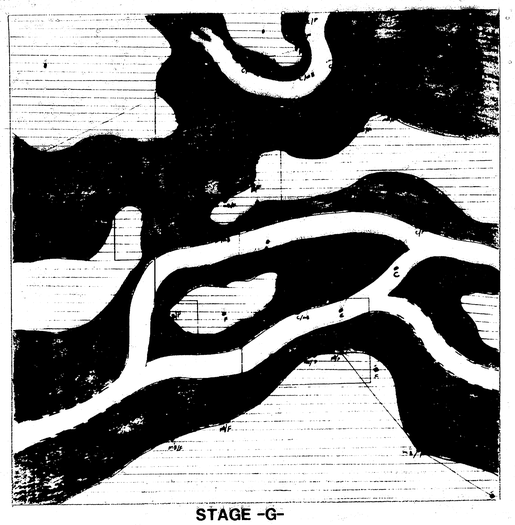
STAGE -D-



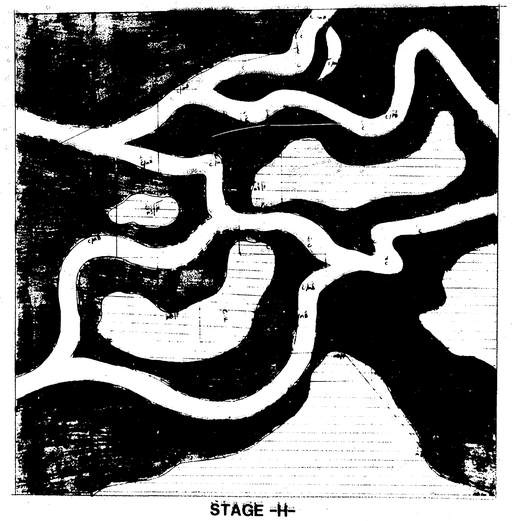
STAGE -E-



STAGE -F-



STAGE -G-



STAGE -H-

PLAN VIEW MODEL OF THE DEPOSITIONAL ENVIRONMENTS IN A PORTION OF NORTHEASTERN LEA CO., NEW MEXICO (UPPER & LOWER MORROW) AS IN E-LOG RESPONSE, S-PHILE LOG.

WHITE CITY PENN GAS POOL,
T-24-S R-28-E
EDDY CO., NEW MEXICO
H. H. CASAVANT
GULF OIL CORPORATION — SOUTHWEST MIDLAND.

LEGEND:

SCALE: 1" = 3000ft

WHITE CITY PENN GAS POOL BOUNDRY

Most favorable area of massive sand exhibiting channel or quality sand upward sequences--distributary mouth bars, tidal ridge bars, bar bars; etc..

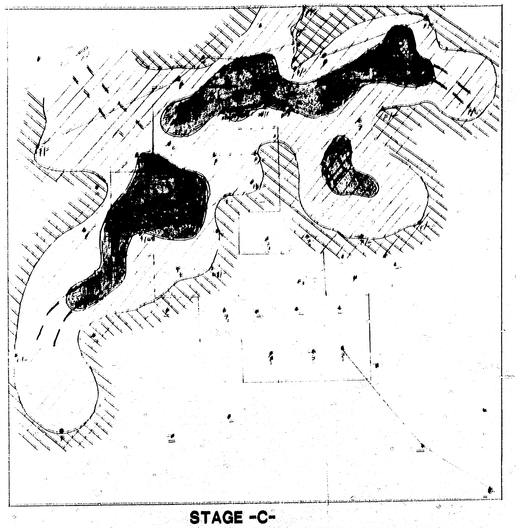
Interbedded sand and shale facies--sand bodies, coals, etc..

Predominately marine or interdistributary clays, and coal. Carbonate deposits-transgressive "pulses".

LOG RESPONSE (SP, GAMMA RAY, RESISTIVI

- Massive sands; channel character
- Point bar sequences: fining-upwar
- Distributary mouth bar, barrier ba crevasse splay-subdeltaic sands; fi sands; coarsening-upwards sequenc
- Marine-ridge sands: reworked seq
- Sand body not developed: silt shal
- Interval not penetrated by borehol



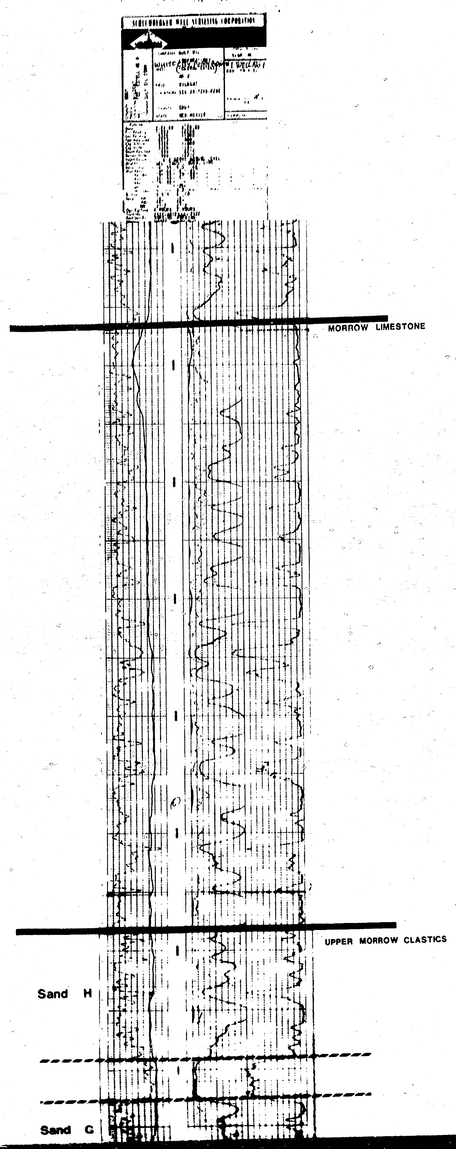


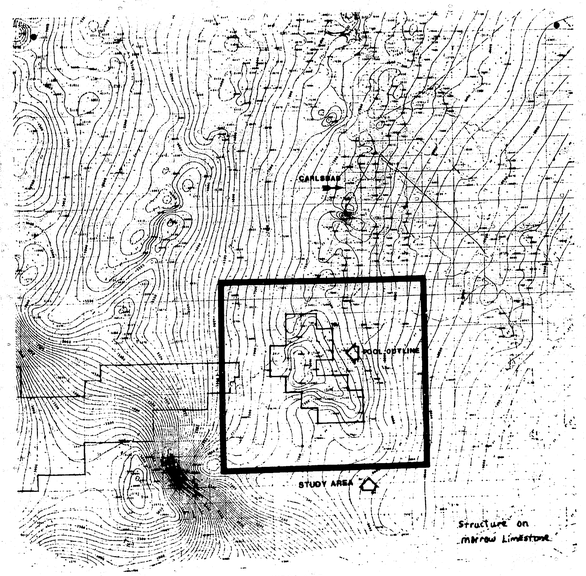
STAGE -C-



STAGE -F-

TYPE LOG





INDEX MAP

EXHIBIT 6
CASE 7208
MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION

U.S.G.S. RECORDS
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STAGE -C-



STAGE -F-

PLAN VIEW MODEL OF THE DEPOSITIONAL ENVIRONMENTS IN A DISTAL DELTAIC PLAIN SEQUENCE(SAND 'A-H...UPPER & LOWER MORROW) AS DETERMINED FROM E-LOG RESPONSE, S'MPLE LOG.

WHITE CITY PENN GAS POOL

T-24-S R-26-E

EDDY CO., NEW MEXICO

R. R. CASAVANT

GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS

LEGEND:

SCALE: 1" = 3000ft

WHITE CITY PENN GAS POOL BOUNDRY

CROSS-SECTIONS

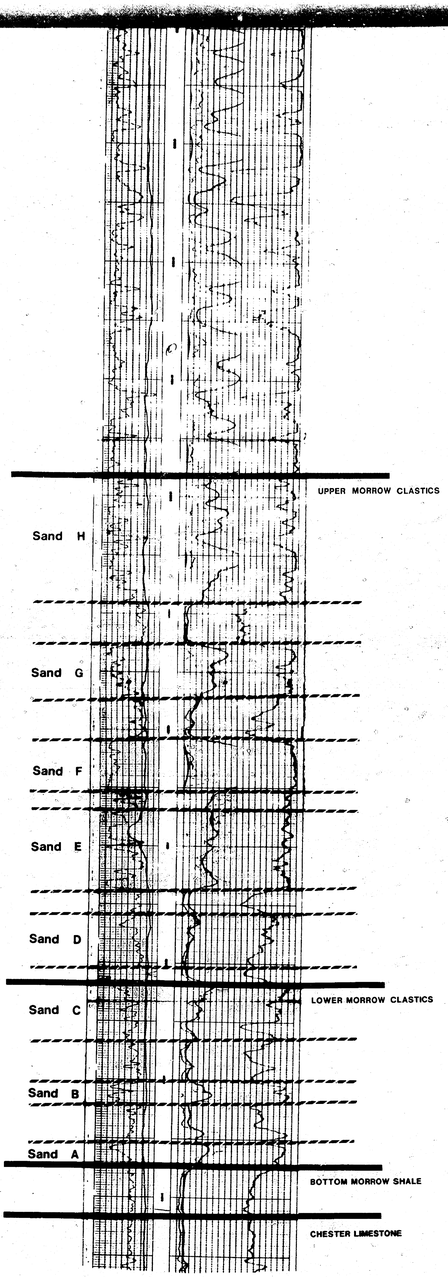
Most favorable area of massive sand accumulations exhibiting channel or quality coarsening or fining-upward sequences--distributary mouth bars, channel mouth bars, tidal ridge bars, barrier bars, point-bars, etc..

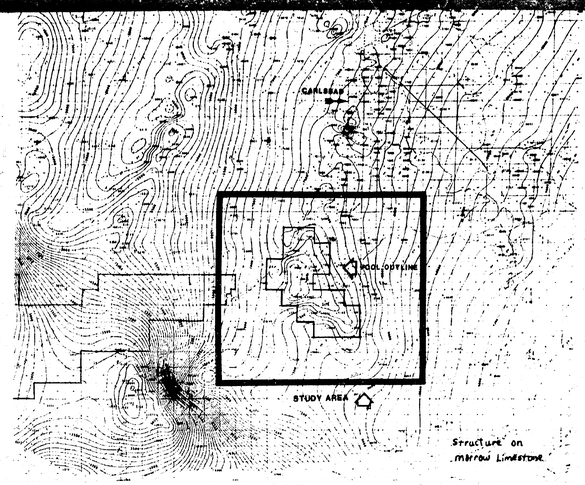
Interbedded sand and shale facies--marine-fringe sand bodies, coals, etc..

Predominately marine or interdistributary shales, clays, and coal. Carbonate deposition throughout transgressive "pulses".

LOG RESPONSE (SP, GAMMA R-N, RESISTIVITY)

C	Massive sands; channel characteristics, sheet sands
PB	Point bar sequences; fining-upwards sequences
MB	Distributary mouth bar, barrier bar, tidal ridge bar, crevasse splay(subdelta) sands, flanking channel-bar sands; coarsening-upwards sequences
F	Marine-fringe sands; reworked sequences
--	Sand body not developed; all shale/carbonate embayment
?	Interval not penetrated by borehole





INDEX MAP

EXHIBIT 6

CASE 7208

MARCH 25, 1981

PALEOENVIRONMENTAL RECONSTRUCTION

OF THE PENNSYLVANIAN MORROW CLASTICS

IN THE WHITE CITY PENN GAS POOL,

EDDY COUNTY , NEW MEXICO

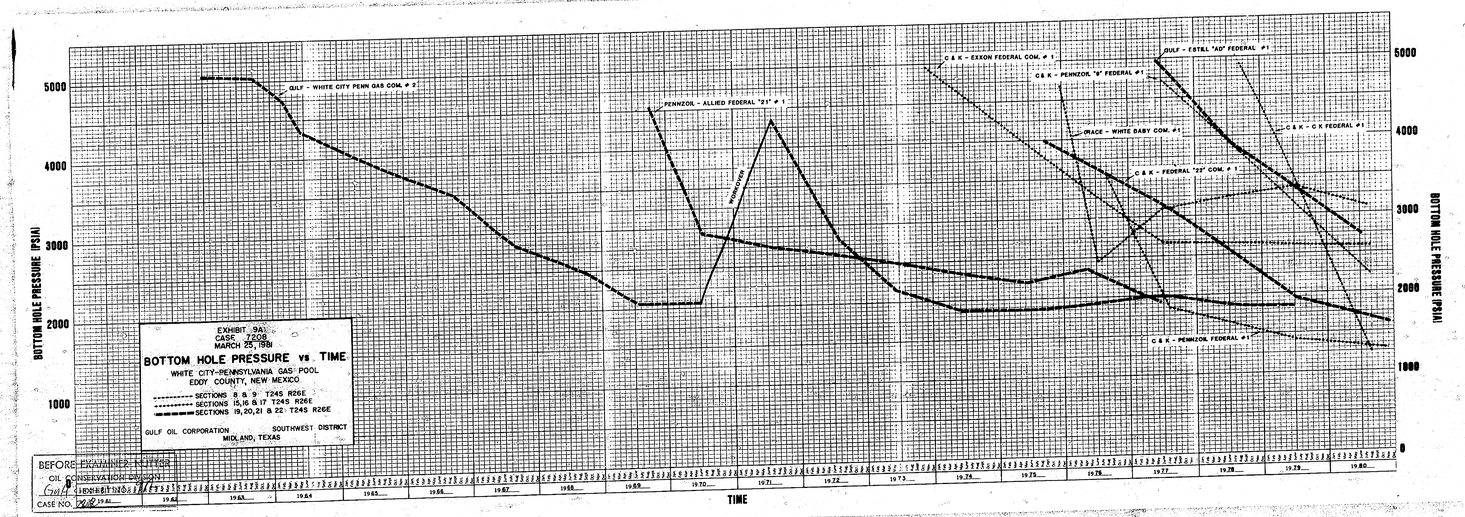
GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS

GEOLOGY & DRAFTING: R. R. CASAVANT

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf's EXHIBIT NO. 6
CASE NO. 7208

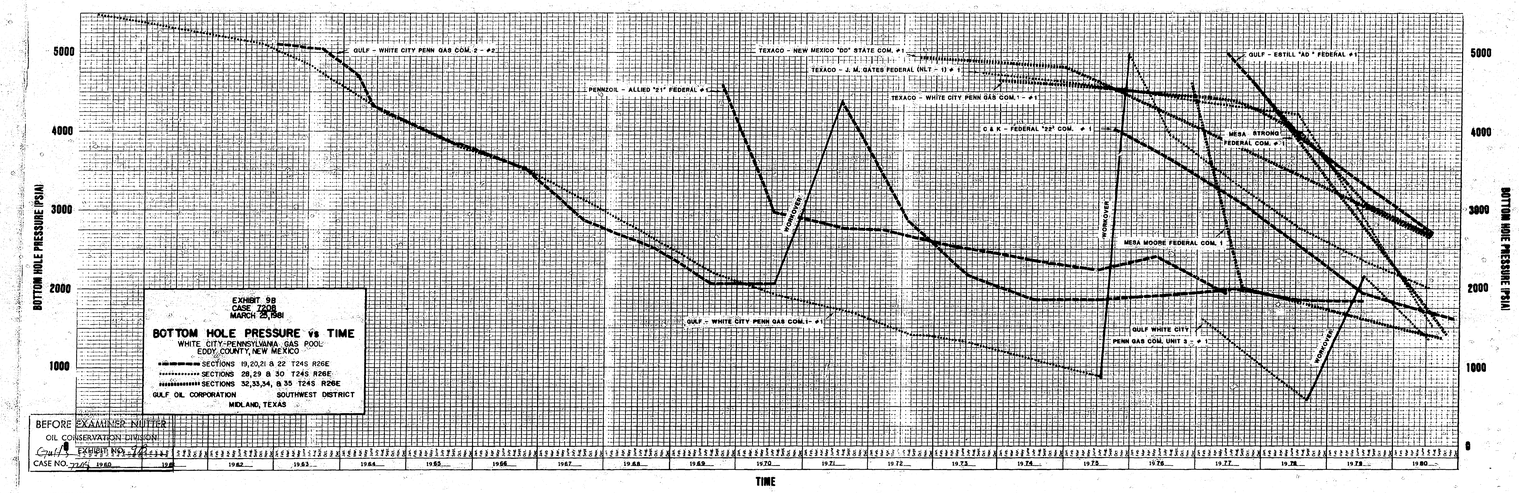
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U.S.G.S. RECONNAISSANCE
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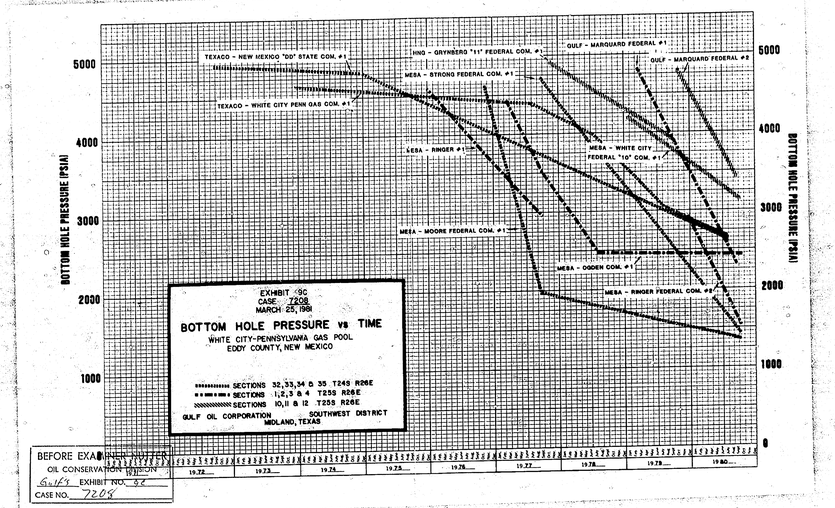


U.S.G.S. RECORDS

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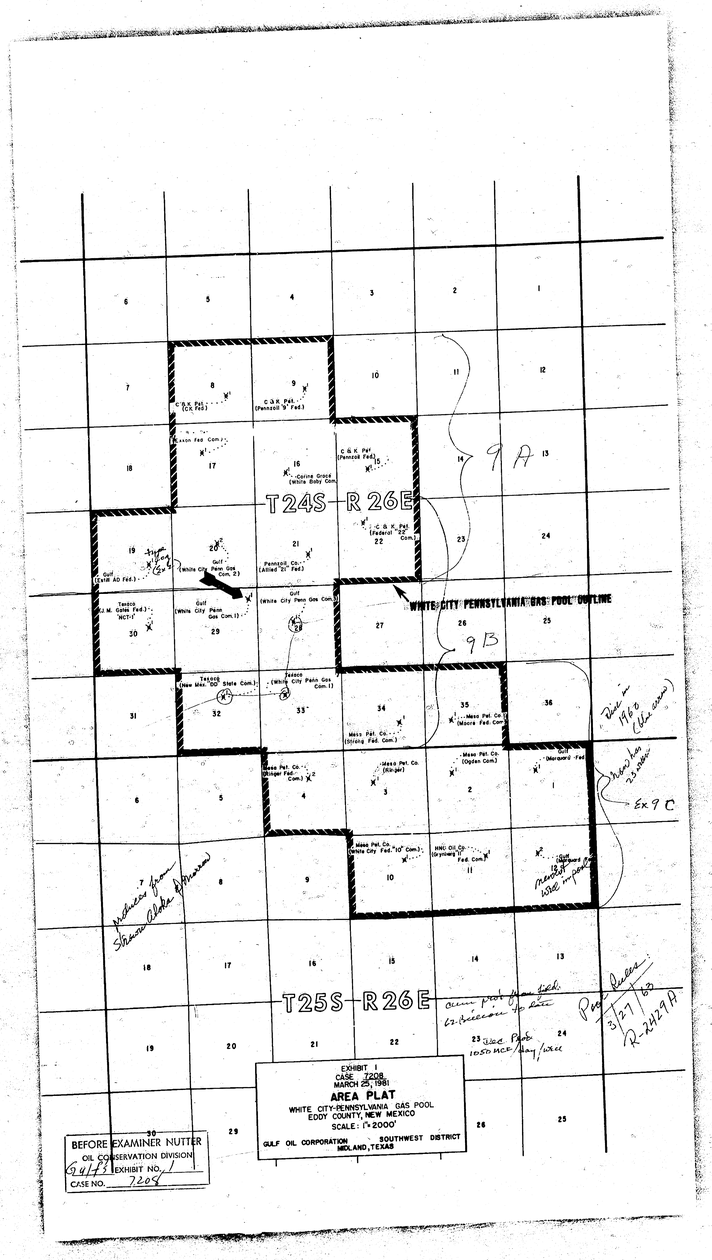

GULF – WHITE CITY PENN GAS COM. 2 – #2
PENNZOIL – ALLIED "21" FEDERAL #1
TEXACO – NEW MEXICO "DO" STATE COM. #1
TEXACO – J. M. GATES FEDERAL (NCT – 1) #1
TEXACO – WHITE CITY PENN GAS COM.1 – #1
C & K – FEDERAL "22" COM. #1
GULF – ESTILL "AD" FEDERAL #1
MESA STRONG FEDERAL COM. #1
MESA MOORE FEDERAL COM. 1
GULF WHITE CITY PENN GAS COM. UNIT 2 – #1
GULF – WHITE CITY PENN GAS COM.1 – #1
RECOVER
RECOVER
RECOVER
RECOVER
EXHIBIT 98
CASE 7208
MARCH 25,1981
BOTTOM HOLE PRESSURE vs TIME
WHITE CITY-PENNSYLVANIA GAS POOL
EDDY COUNTY, NEW MEXICO
SECTIONS 19,20,21 & 22 T24S R26E
SECTIONS 28,29 & 30 T24S R26E
SECTIONS 32,33,34, & 35 T24S R26E
GULF OIL CORPORATION SOUTHWEST DISTRICT
MIDLAND, TEXAS
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 7
CASE NO. 7245
BOTTOM HOLE PRESSURE (PSIA)
5000
4000
3000
2000
1000
0
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
TIME


U.S.G.S. RECORDS
NOT AVAILABLE FOR



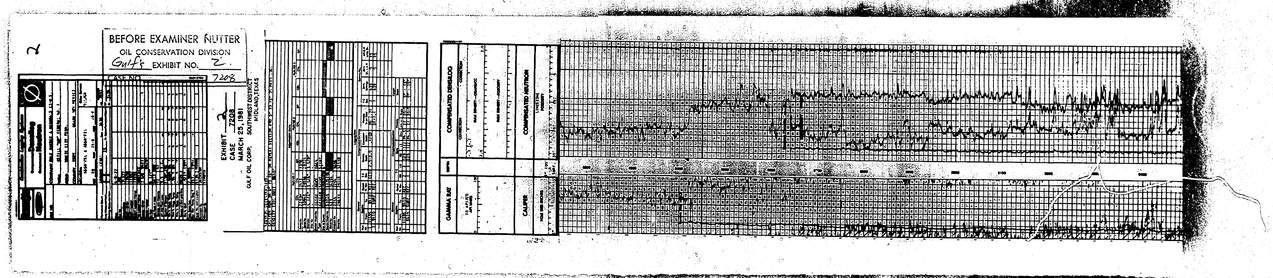
BEFORE EXAMINER
OIL CONSERVATION DIVISION
GULF EXHIBIT NO. 9C
CASE NO. 7208

U.S.G.S. RECONNAISSANCE
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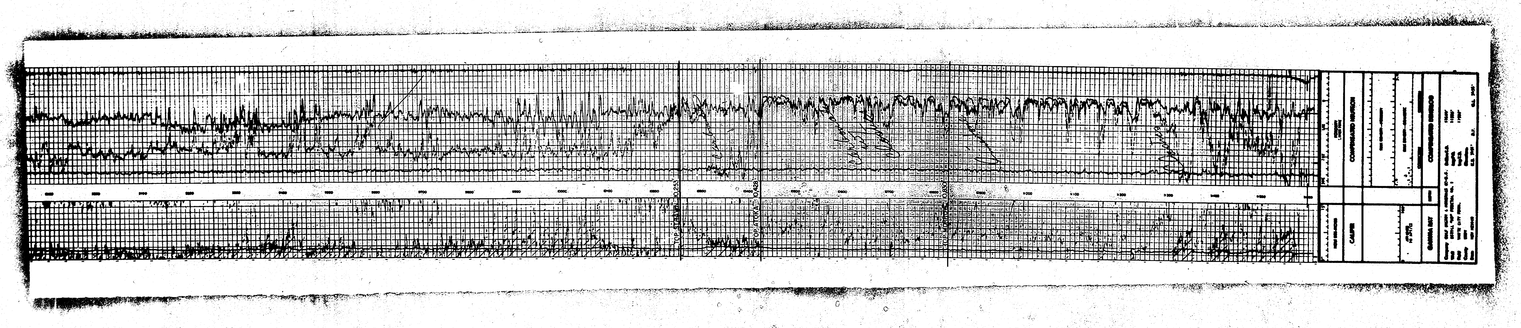


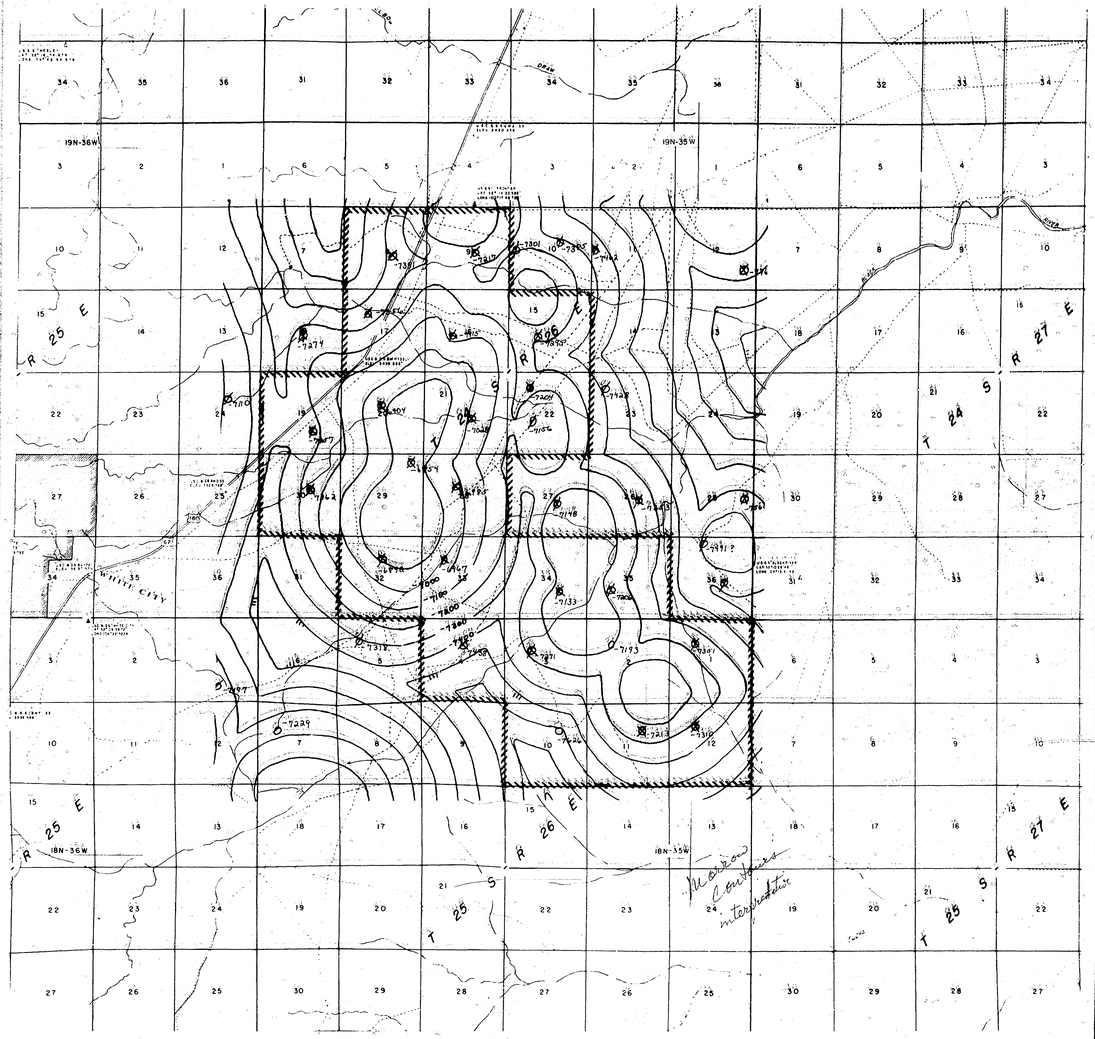
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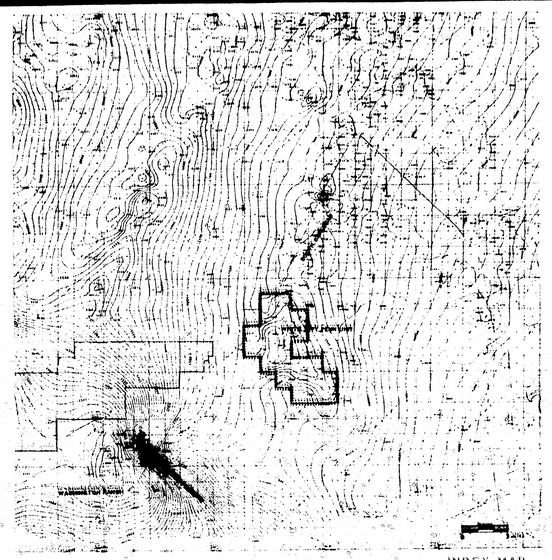
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf's EXHIBIT NO. 2
CASE NO. 7408




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Marrow contours (computer)

EXHIBIT 3
CASE 7208
MARCH 25, 1981

GULF OIL CORPORATION
WHITE CITY PENN GAS POOL
EDDY COUNTY, NEW MEXICO

STRUCTURAL CONTOURS ON ~~CHESTER~~ MORROW LIMESTONE
CONTOUR INTERVAL = 100ft
UNIT OUTLINE

SCALE IN FEET
0 3000 6000

GEOLOGY: R. N. CASAVANT

Ø DRY HOLE
GAS PRODUCER
ABANDONED PRODUCER

BEFORE EXAMINER UTTER
OIL CONSERVATION DIVISION
CASE NO. 7208

N.M.O.C.D. Roswell, N.M.
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