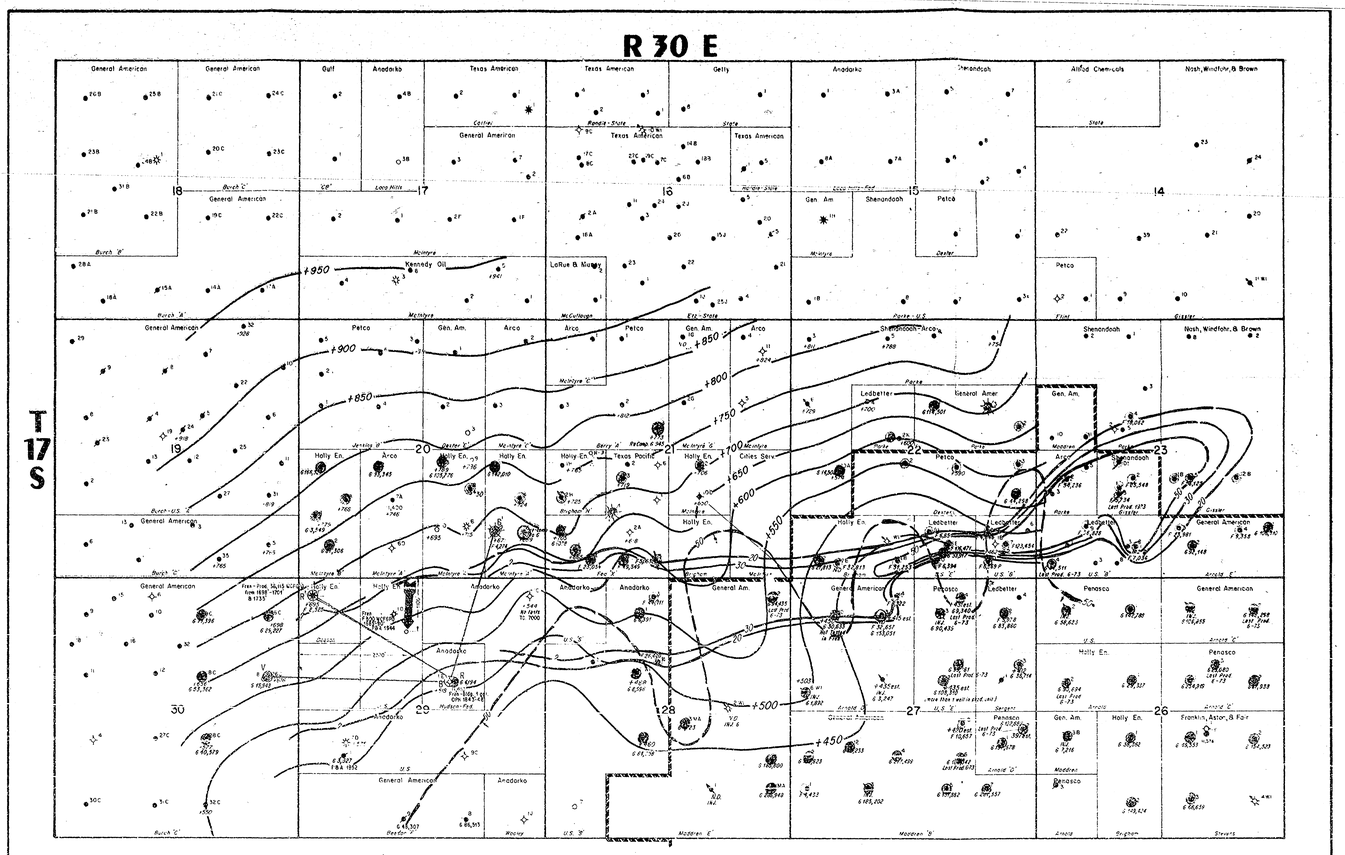
Case No
7277

Large Exhibits

BEST AVAILABLE COPY

R 30 E

T 17 S



PROPOSED LOCATION

8——8' CROSS SECTION

—20— ISOPLETH +20,000 BBLS. CUMULATIVE PRODUCTION THRU 1980 FREN ZONE

—50— ISOPLETH +50,000 BBLS. CUMULATIVE PRODUCTION THRU 1979, GRAYBURG-SAN ANDRES ZONES COMINGLED

GRAYBURG-JACKSON UNIT

FREN PRODUCTION (+ GAS WELL)

GRAYBURG PRODUCTION (LOCO HILLS, METEX, PREMIER ZONES) COMINGLED WITH SAN ANDRES ZONES

ABO PRODUCTION

N

EXHIBIT I
DOCKET # 7277

HOLLY ENERGY, INC.

LOCO HILLS PROSPECT
GRAYBURG-JACKSON FIELD
STRUCTURE CONTOUR MAP
TOP SAN ANDRES FORMATION
EDDY COUNTY, NEW MEXICO

C.I. = 50' DATE: JUNE 17, 1981
1" = 1000' BY: D.L. EIGE

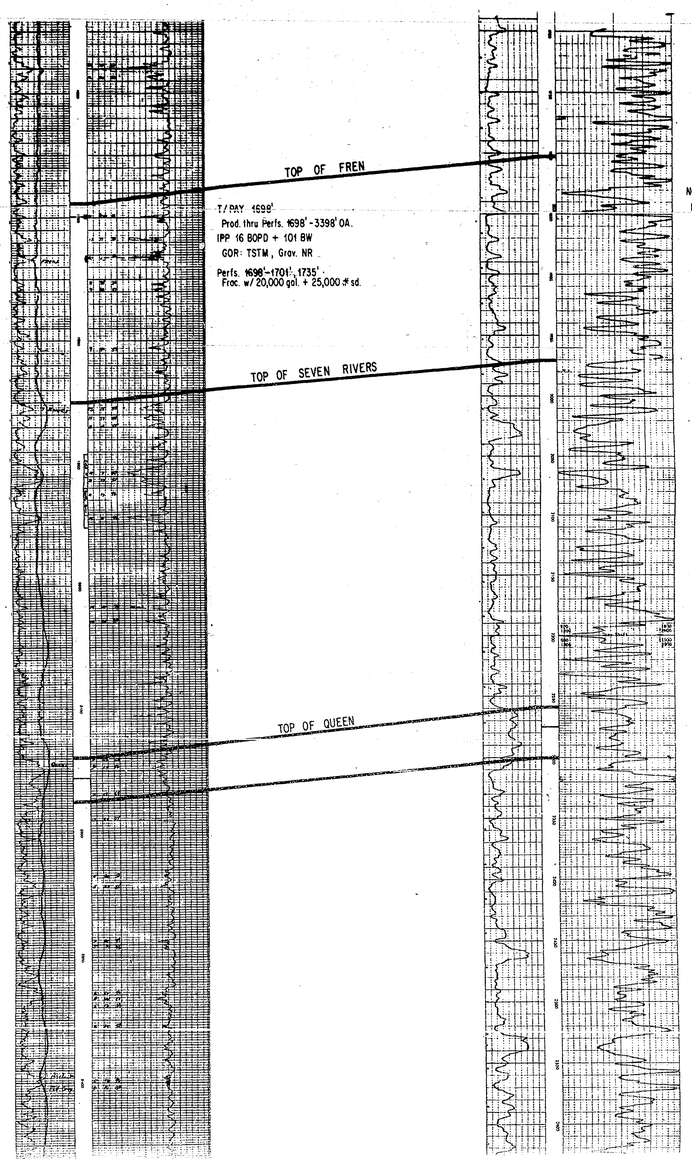
BEST AVAILABLE COPY

HOLLY ENERGY, INC.
#1 Beeson

330' FNL, 330' FWL
Sec. 29 T 17 S R 30 E
ELEV 3615' KB

FRANKLIN, ASTON, & FAIR
#1 Ex-Federal

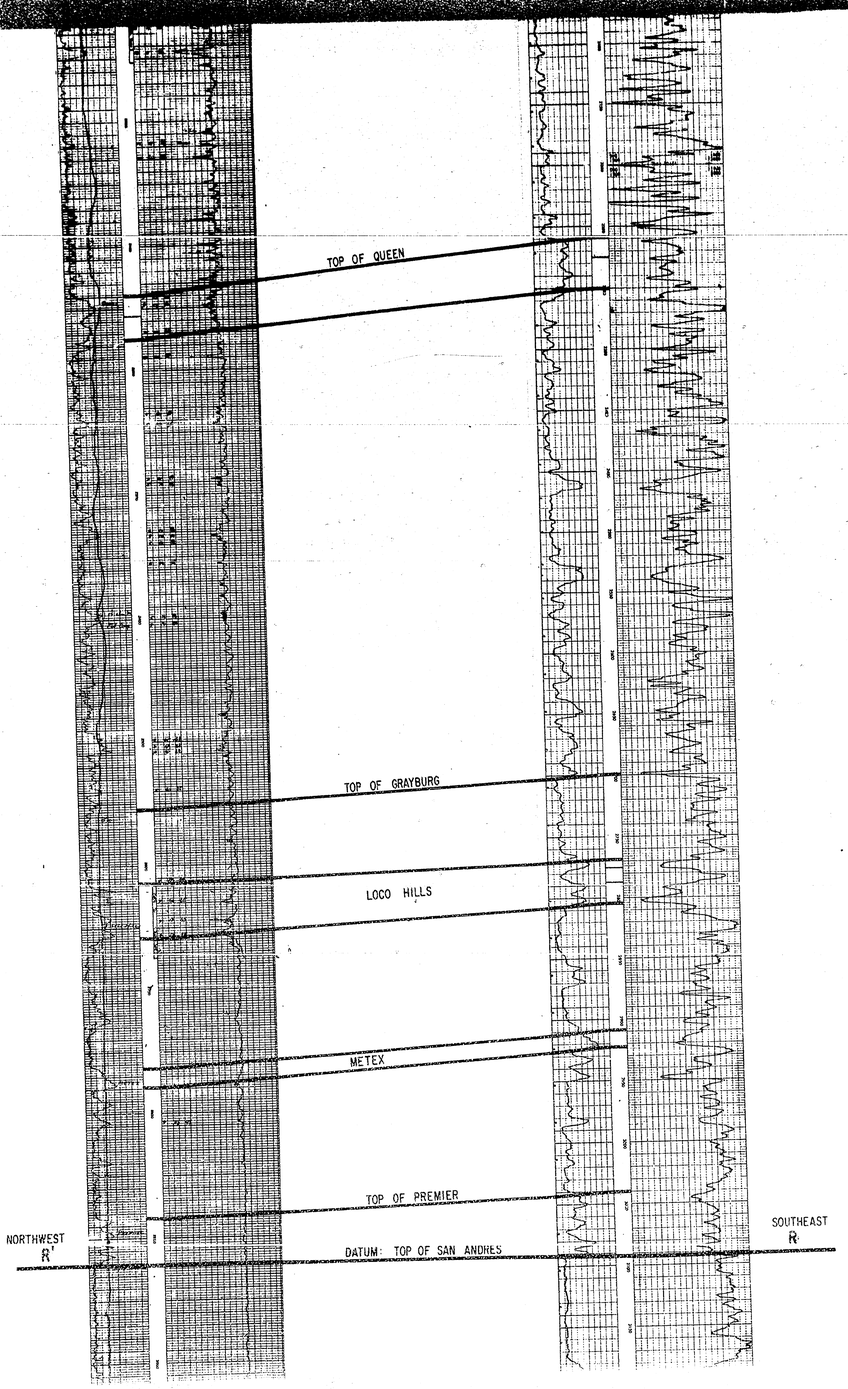
1980' FNL, 1980' FEL
Sec. 29 T 17 S R 30 E
ELEV 3610' DF



NO CORES OR TESTS
Bldg. 1 gel OH PH
from 1843 - 48'

N.M.O.C.D. MICROGRAPHICS

BEST AVAILABLE COPY



U.S.B.L.M. MICROGRAPHICS

BEST AVAILABLE COPY

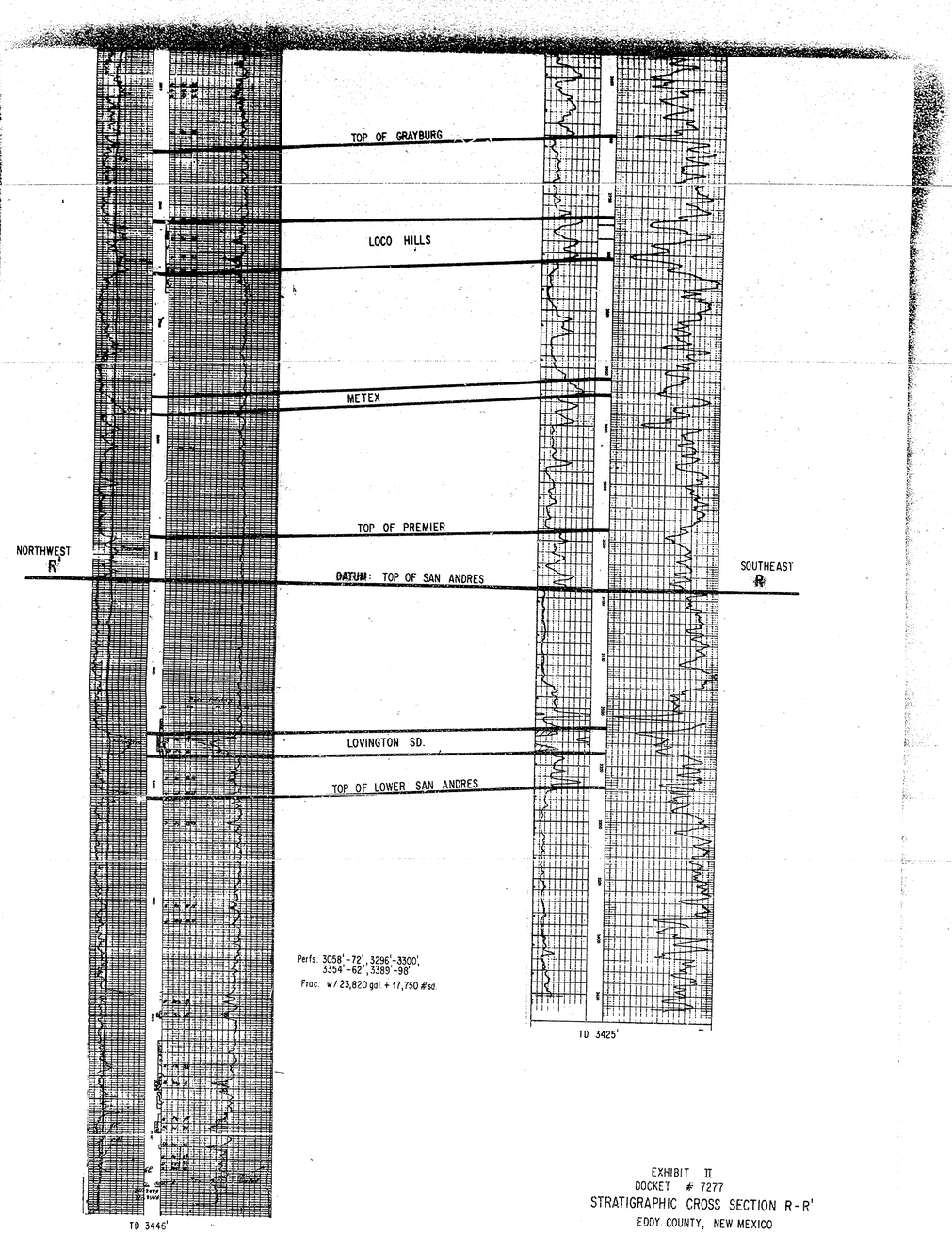


EXHIBIT II
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION R-R'
EDDY COUNTY, NEW MEXICO

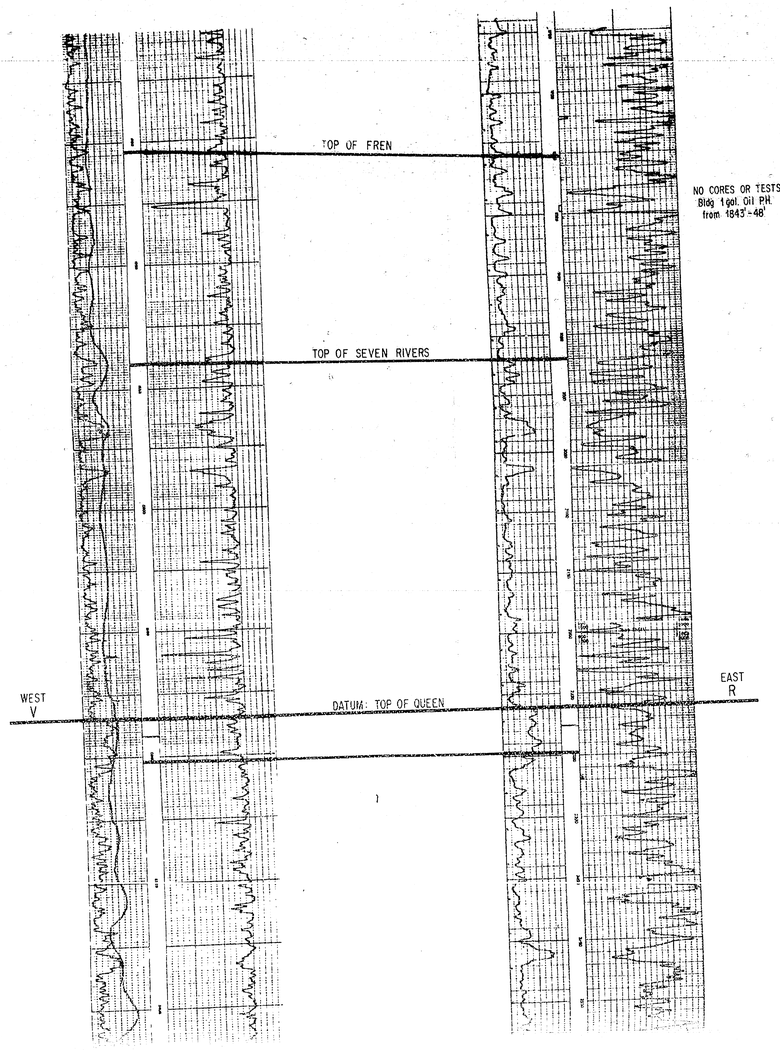
DATUM: TOP OF SAN ANDRES
SCALE: VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

N.M.O.C.D. MICROGRAPHICS

BEST AVAILABLE COPY

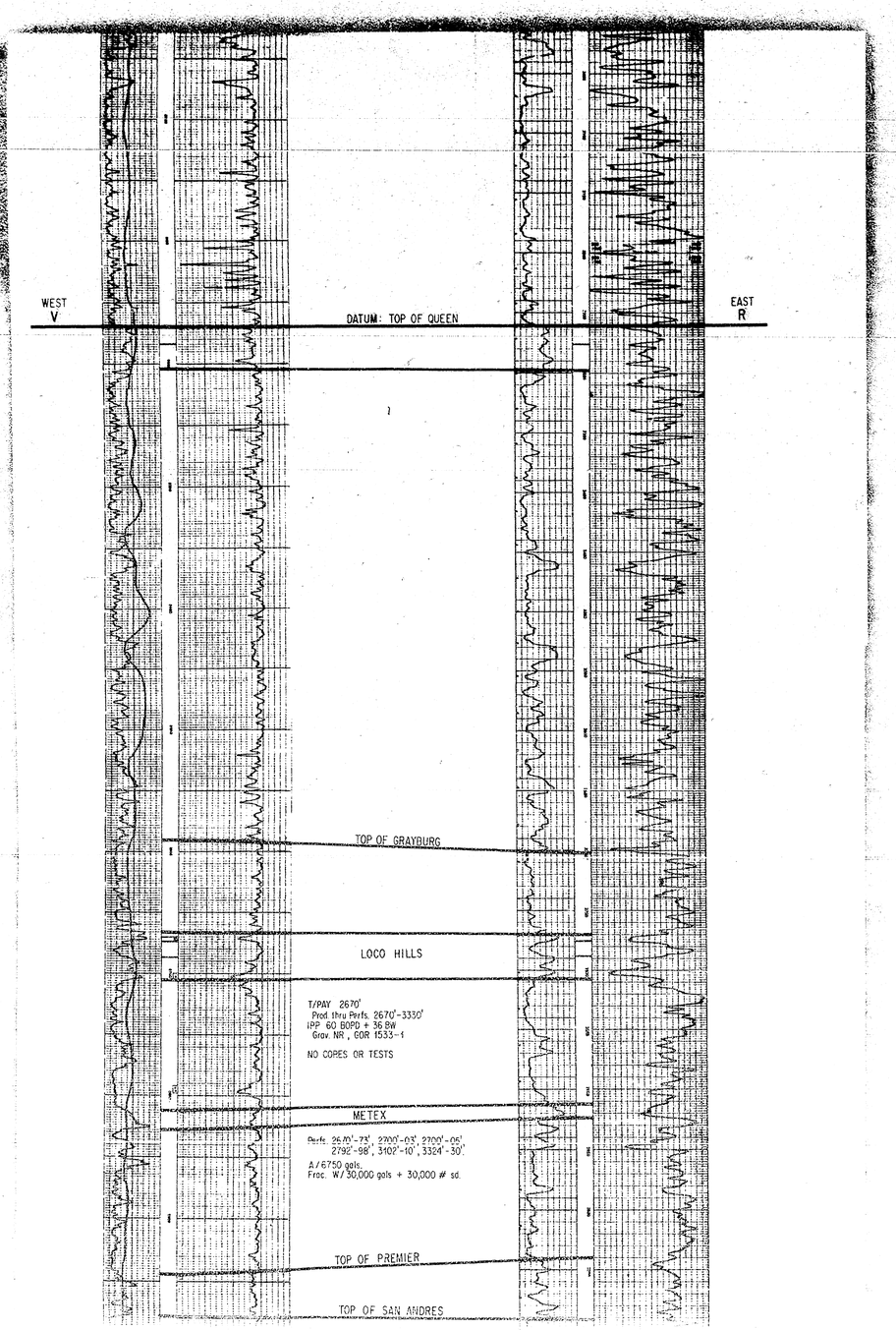
GENERAL AMERICAN
#26 Burch C
1980' FNL, 660' FEL
Sec 30 T17S R30E
ELEV 3598' KB

FRANKLIN, ASTON, & FAIR
#1 Ex-Federal
1980' FNL, 1980' FEL
Sec 29 T17S R30E
ELEV 3610' DF



NO CORES OR TESTS
Bldg 1 gal Oil PH
from 1845'-48'

A.R.M.A. MICROGRAPHICS
BEST AVAILABLE COPY



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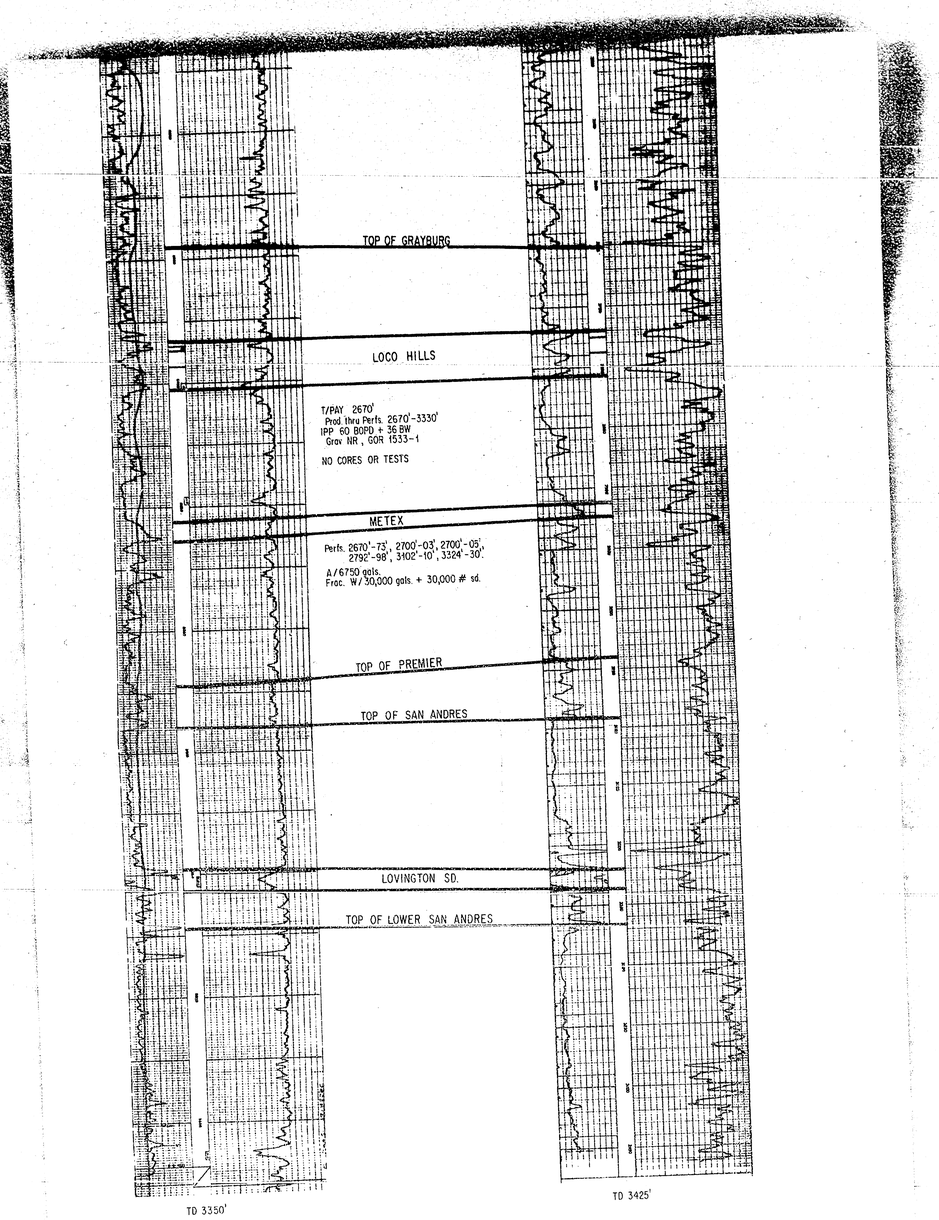


EXHIBIT III
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION V-R
EDDY COUNTY, NEW MEXICO

DATUM TOP OF QUEEN
SCALE VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

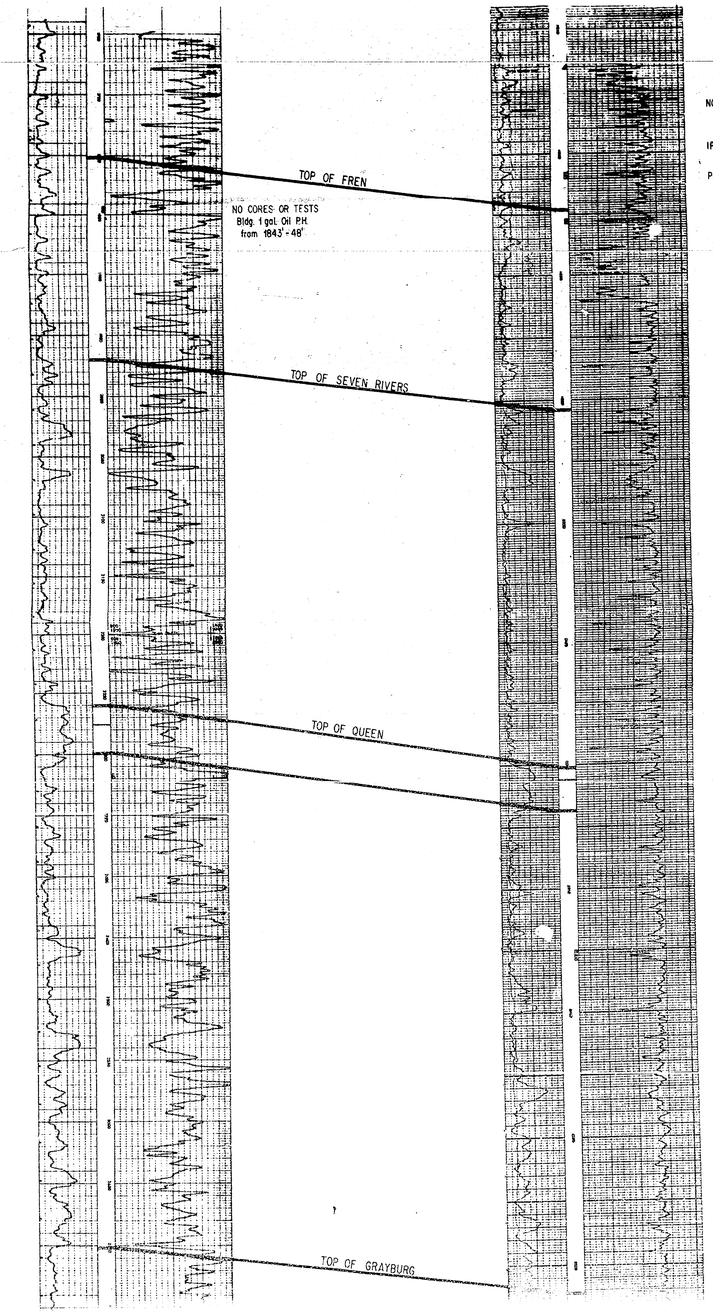
N.M.O.C.D. RECORDS
BEST AVAILABLE COPY

FRANKLIN, ASTON, & FAIR
#1 Ex - Federal

1980' FNL, 1980' FEL
Sec. 29 T17S R30E
ELEV. 3610' DF

HOLLY ENERGY, INC.
#2A McIntyre

990' FSL, 990' FEL
Sec.20 T17S R30E
ELEV. 3637' KB



NO CORES OR TESTS
Bldg. 1 gal. Oil P.H. from 1843' - 48'

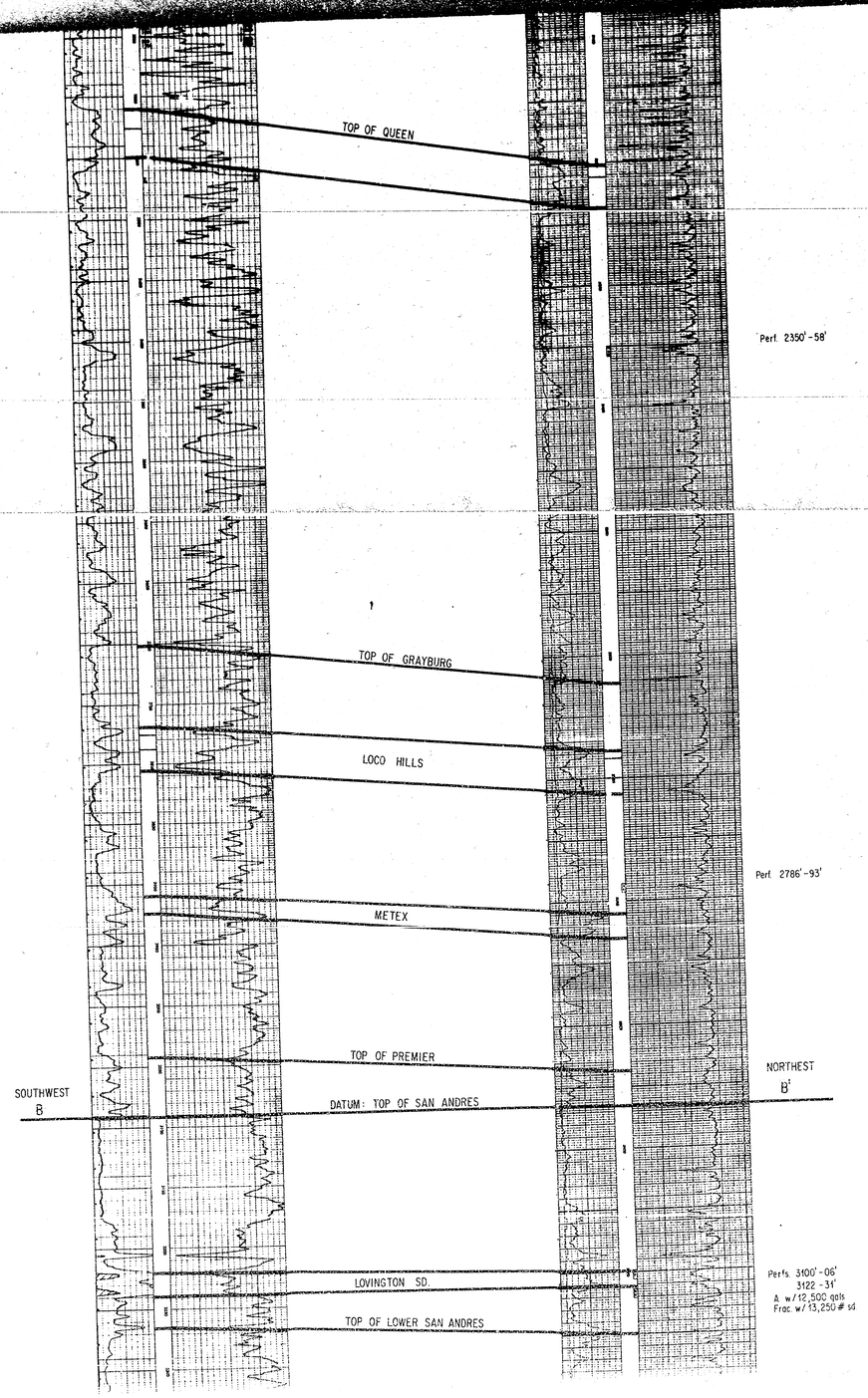
NO CORES OR TESTS

IPP: 55 BO + 40 BW

Perfs. 1715' - 20'
1754' - 58'

Perf. 2350' - 58'

U.M.I. MICROFILMED
BEST AVAILABLE COPY



U.S.G.S. PHOTOGRAPHICS
BEST AVAILABLE COPY

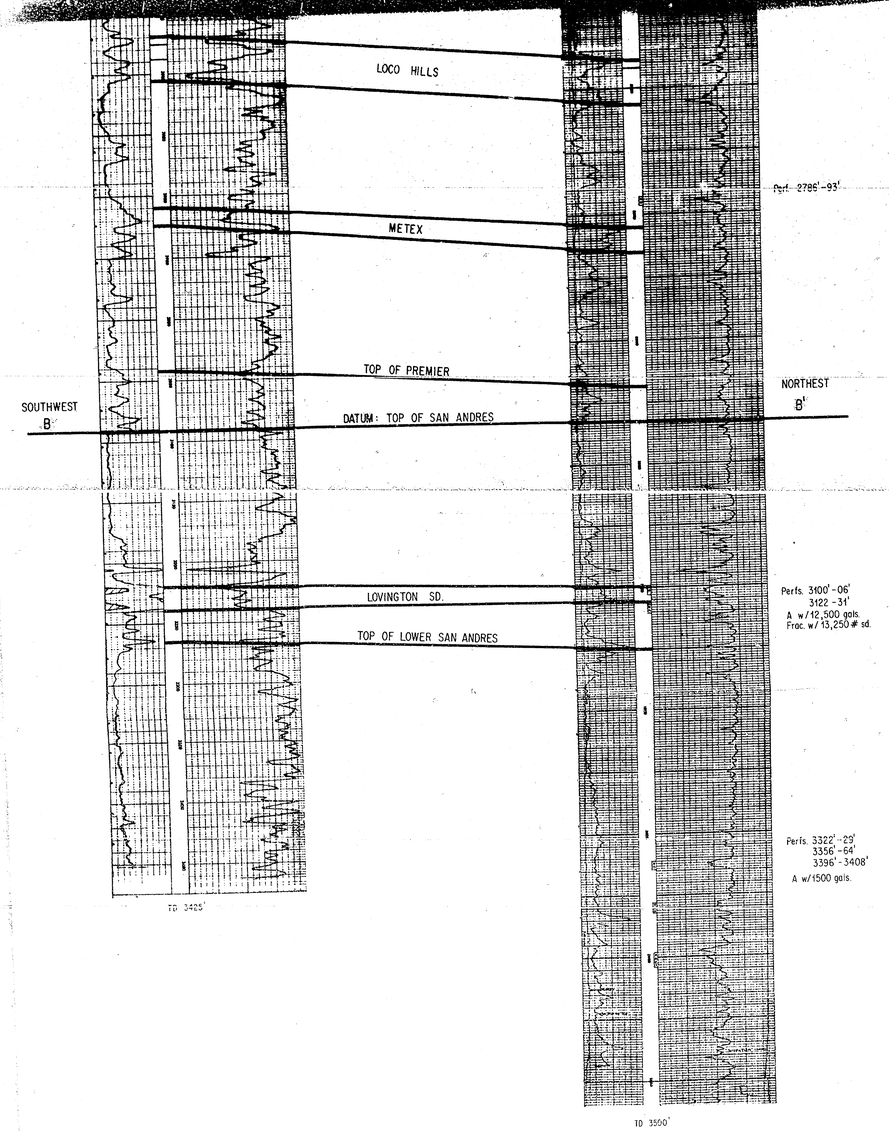


EXHIBIT IV
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION B-B'
EDDY COUNTY, NEW MEXICO

DATUM: TOP OF SAN ANDRES
SCALE: VERTICAL - 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

W.E.M.L.F. HYDROGRAPHICS
BEST AVAILABLE COPY

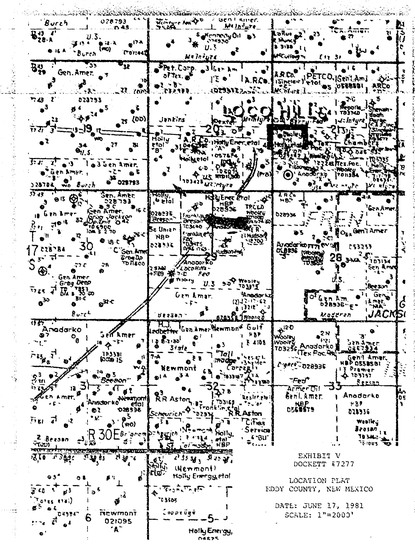


EXHIBIT V
DOCKET# 47277

LOCATION PLAT
EDDY COUNTY, NEW MEXICO

DATE: JUNE 17, 1981
SCALE: 1"=2000'

W.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

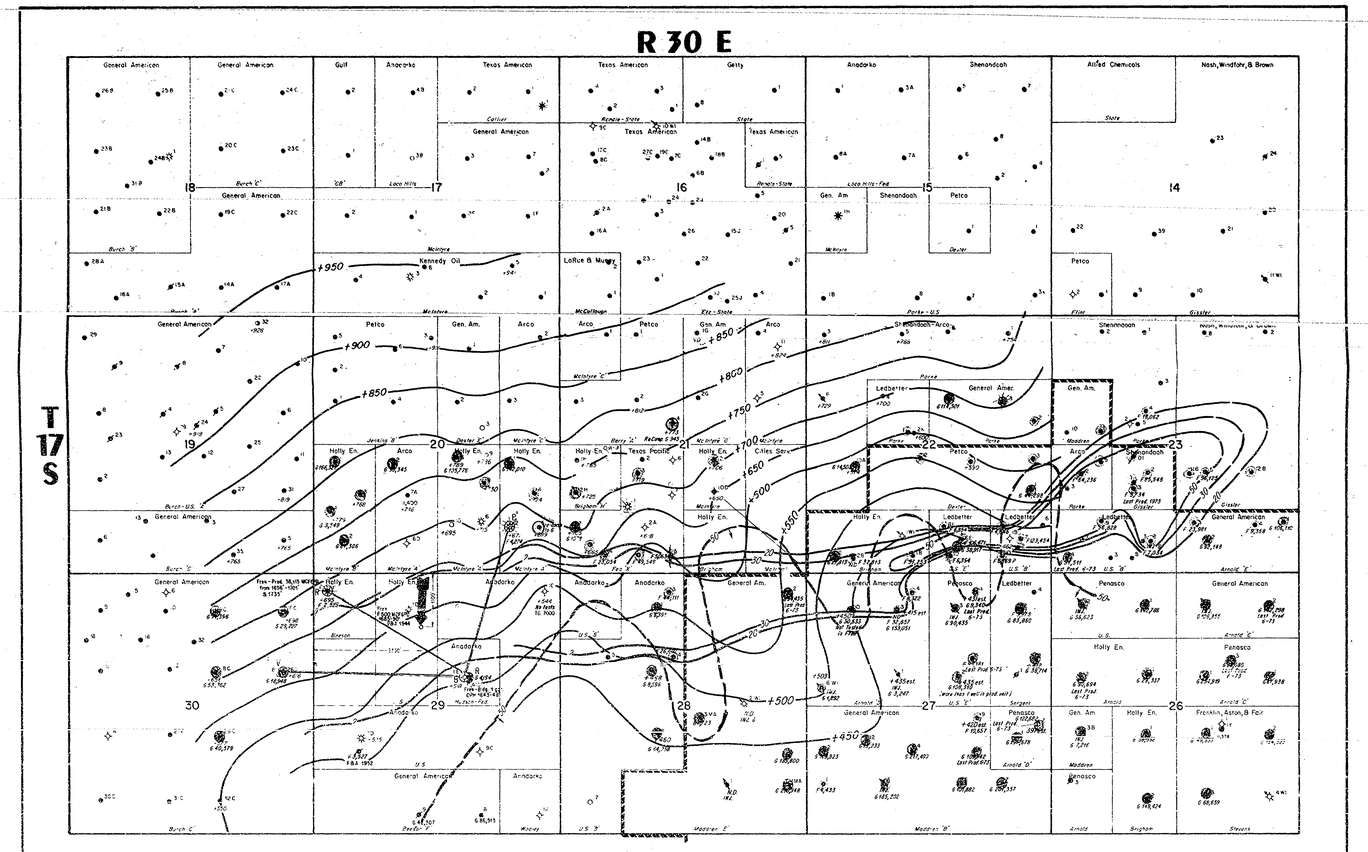


EXHIBIT I
DOCKET # 7277

HOLLY ENERGY, INC.

LOCO HILLS PROSPECT
GRAYBURG-JACKSON FIELD
STRUCTURE CONTOUR MAP
TOP SAN ANDRES FORMATION
EDDY COUNTY, NEW MEXICO

C.I. = 50'
1" = 1000'

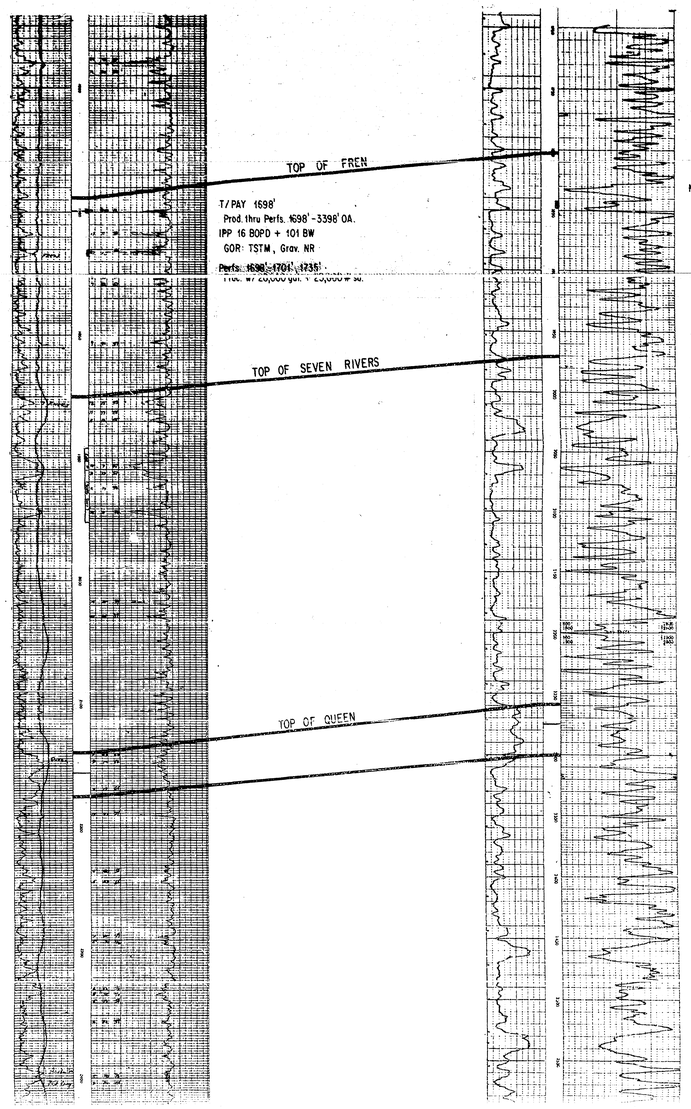
DATE: JUNE 17, 1981
BY: D.L. EIGE

HOLLY ENERGY, INC.
 # 1 Beeson

330' FNL, 330' FWL
Sec 29 T 17 S R 30 E
ELEV 3615' KB

FRANKLIN, ASTON, & FAIR
 # 1 Ex-Federal

1980' FNL, 1980' FEL
Sec 29 T 17 S R 30E
ELEV 3610' DF

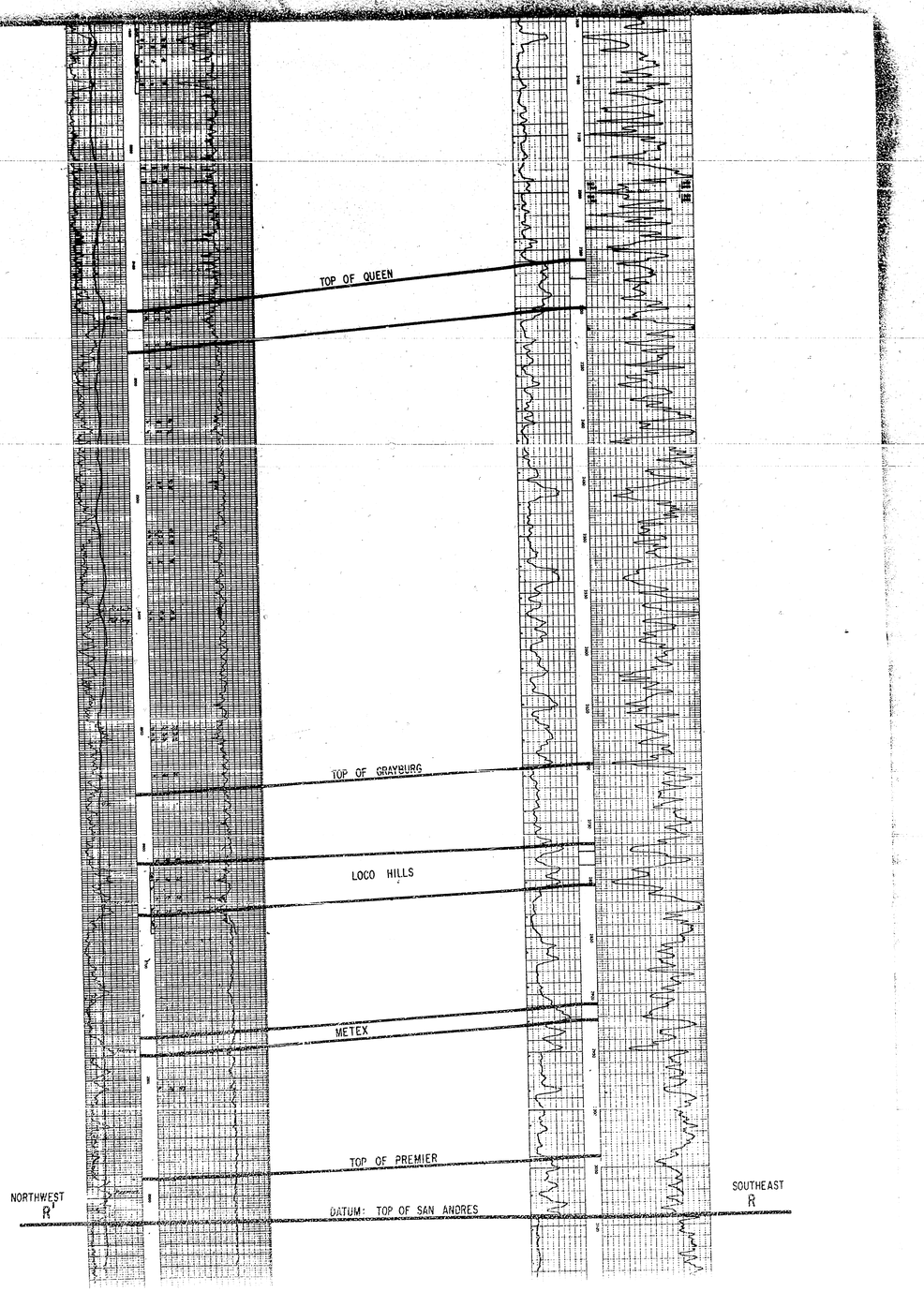


T/PAY 1698'
Prod. thru Perfs. 1698' - 3398' OA.
IPP 16 BOPD + 101 BW
GOR: TSTM, Grav. NR
Perfs: 1698'-1701', 1735'
Trtd. w/ 20,000 gal. + 20,000 # sd.

NO CORES OR TESTS
Bldg. f. gas OH-PH
from 1643'-48'

A.R.M.C.P. MICROGRAPHICS

BEST AVAILABLE COPY



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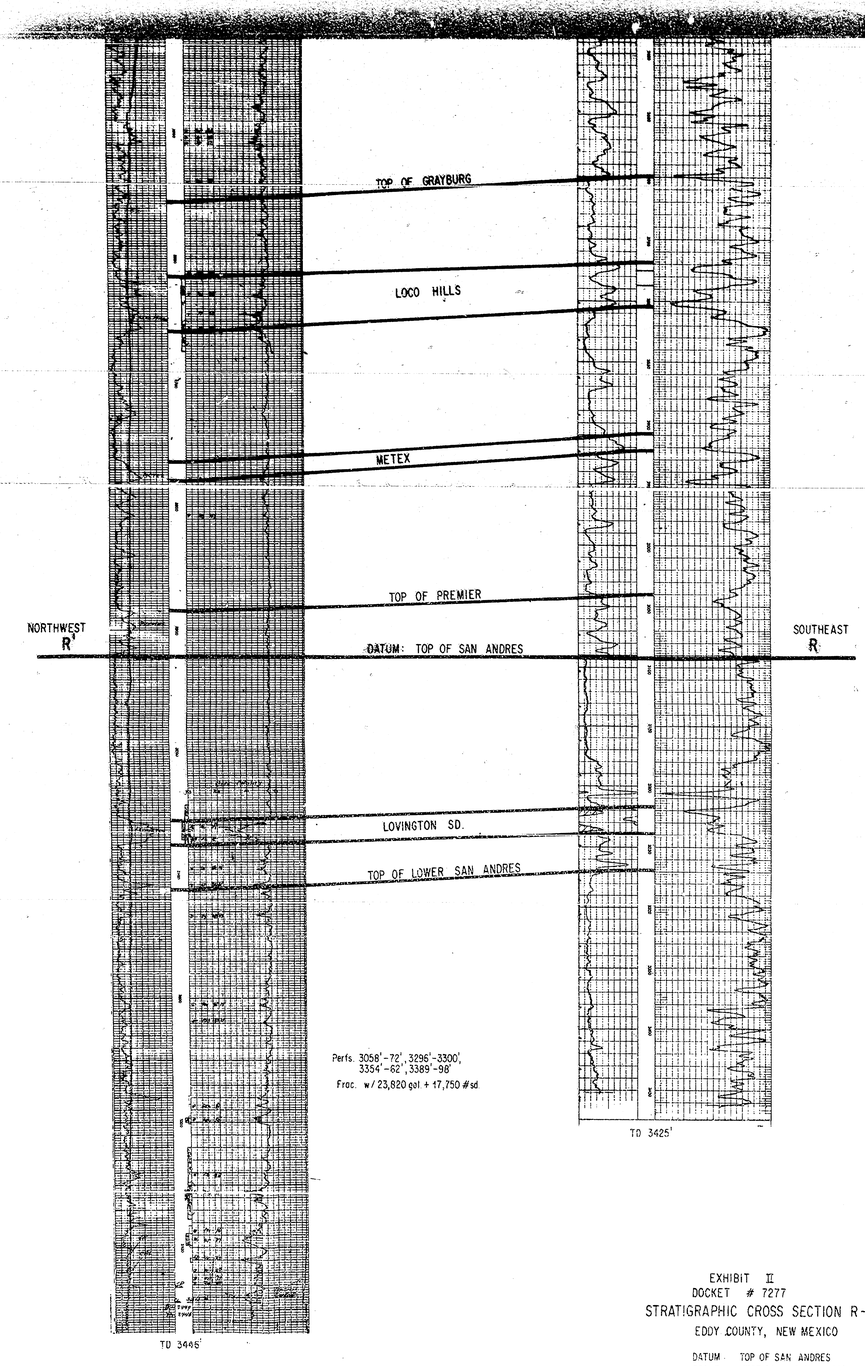


EXHIBIT II
DOCKET # 7277

STRATIGRAPHIC CROSS SECTION R-R'

EDDY COUNTY, NEW MEXICO

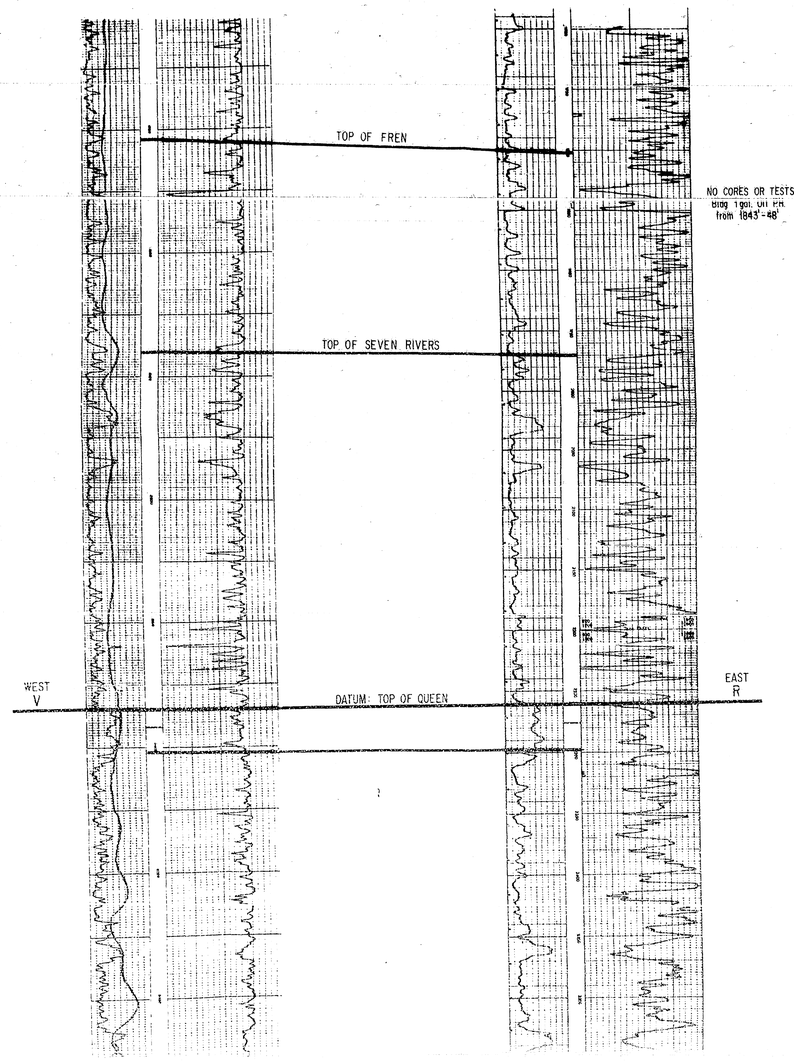
DATUM: TOP OF SAN ANDRES
SCALE: VERTICAL - 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

A.R.M.A. MICROGRAPHICS

BEST AVAILABLE COPY

GENERAL AMERICAN
#26 Burch C
1980' FNL, 660' FEL
Sec 30 T17S R30E
ELEV 3598' KB

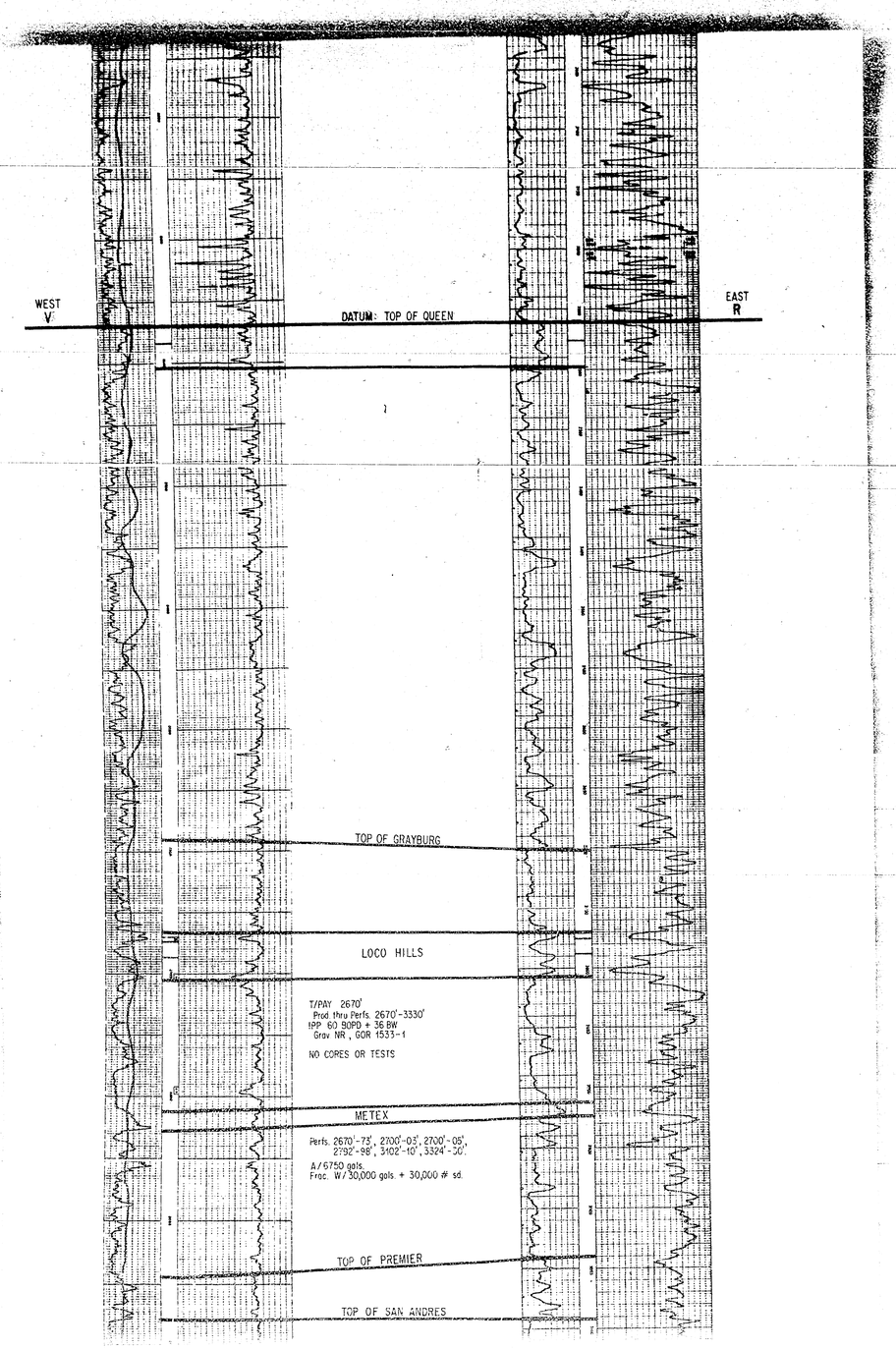
FRANKLIN, ASTON, & FAIR
#1 Ex-Federal
1980' FNL, 1980' FEL
Sec 29 T17S R30E
ELEV 3610' DF



NO CORES OR TESTS
Drlg Tool Ck Frm
from 1843'-48'

W.R.P.C.I. MICROGRAPHICS

BEST AVAILABLE COPY



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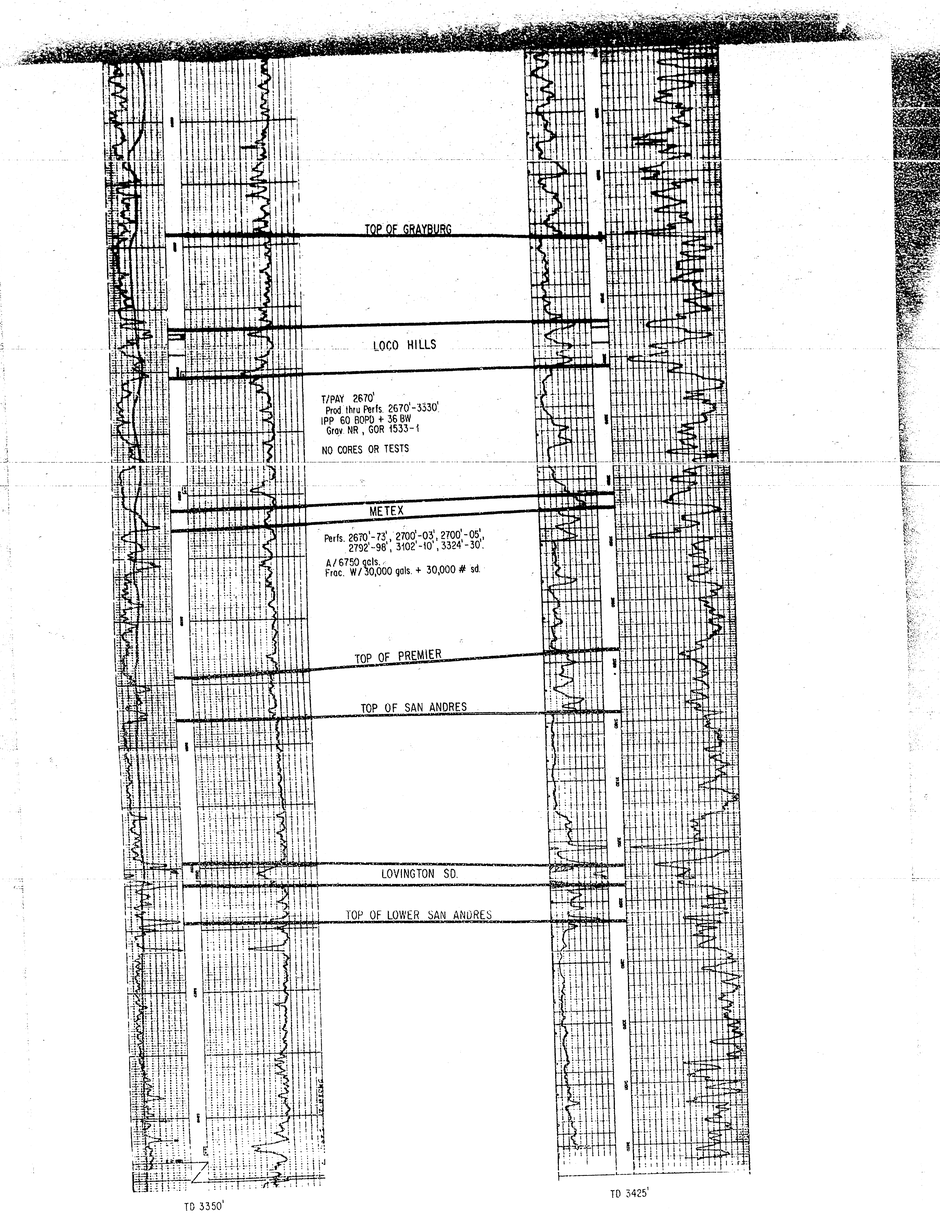


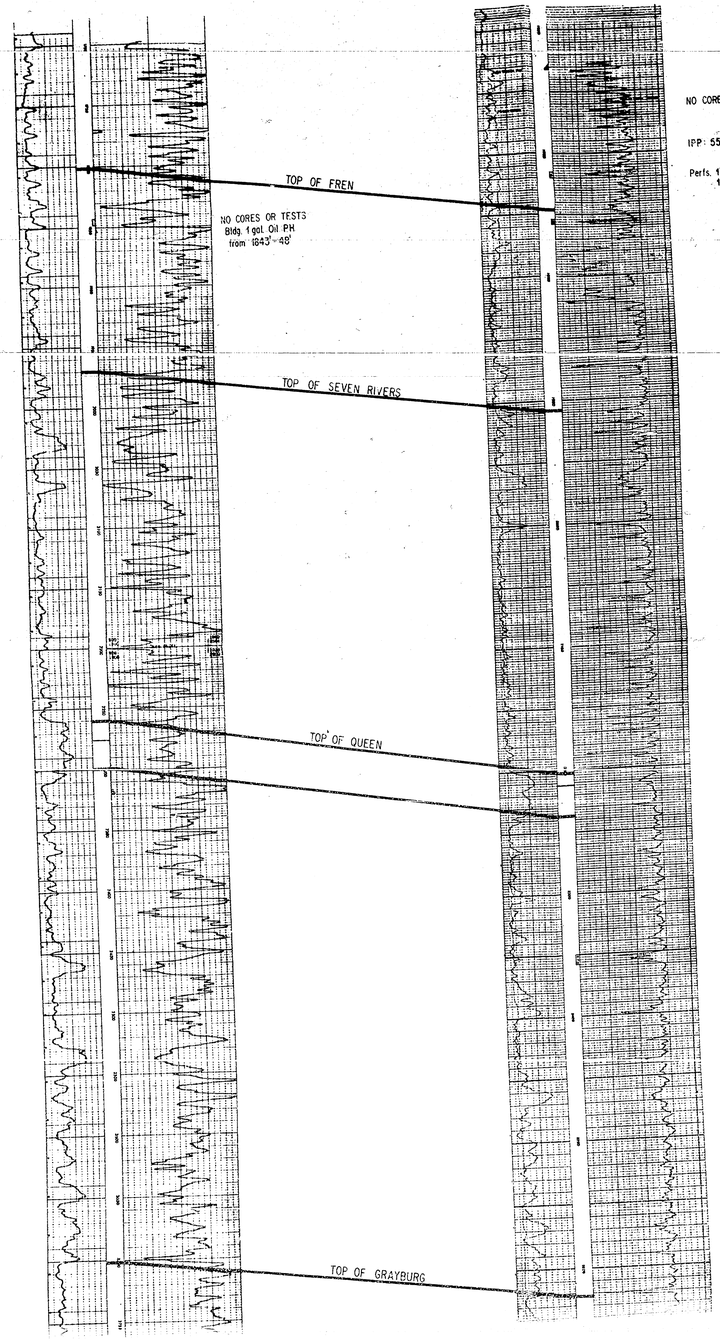
EXHIBIT III
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION V-R
EDDY COUNTY, NEW MEXICO

DATUM: TOP OF QUEEN
SCALE: VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

W.A.M.I.F. MICROGRAPHICS
BEST AVAILABLE COPY

FRANKLIN, ASTON, & FAIR
#1 Ex - Federal
1980' FNL, 1980' FEL
Sec. 29 T17S R30E
ELEV 3610' DF

HOLLY ENERGY, INC.
#2A McIntyre
990' FSL, 990' FEL
Sec. 20 T17S R30E
ELE: 3631' KB



NO CORES OR TESTS
Bldg. 1 gal. Oil PH
from 1643' - 48'

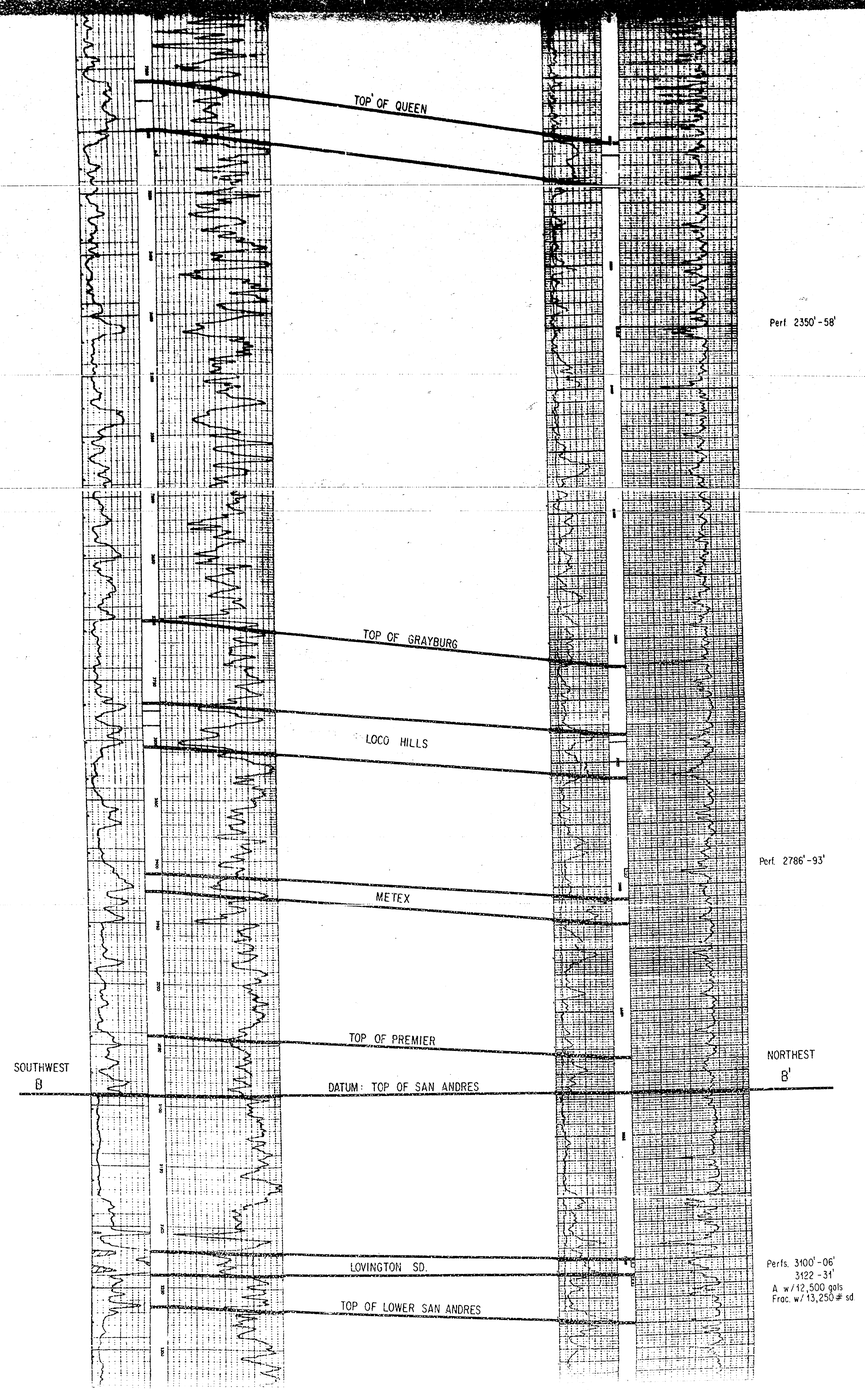
NO CORES OR TESTS

IPP: 55 BO + 40 BW

Perfs. 1745' - 20'
1754' - 58'

Perf 2350' - 58'

BEST AVAILABLE COPY



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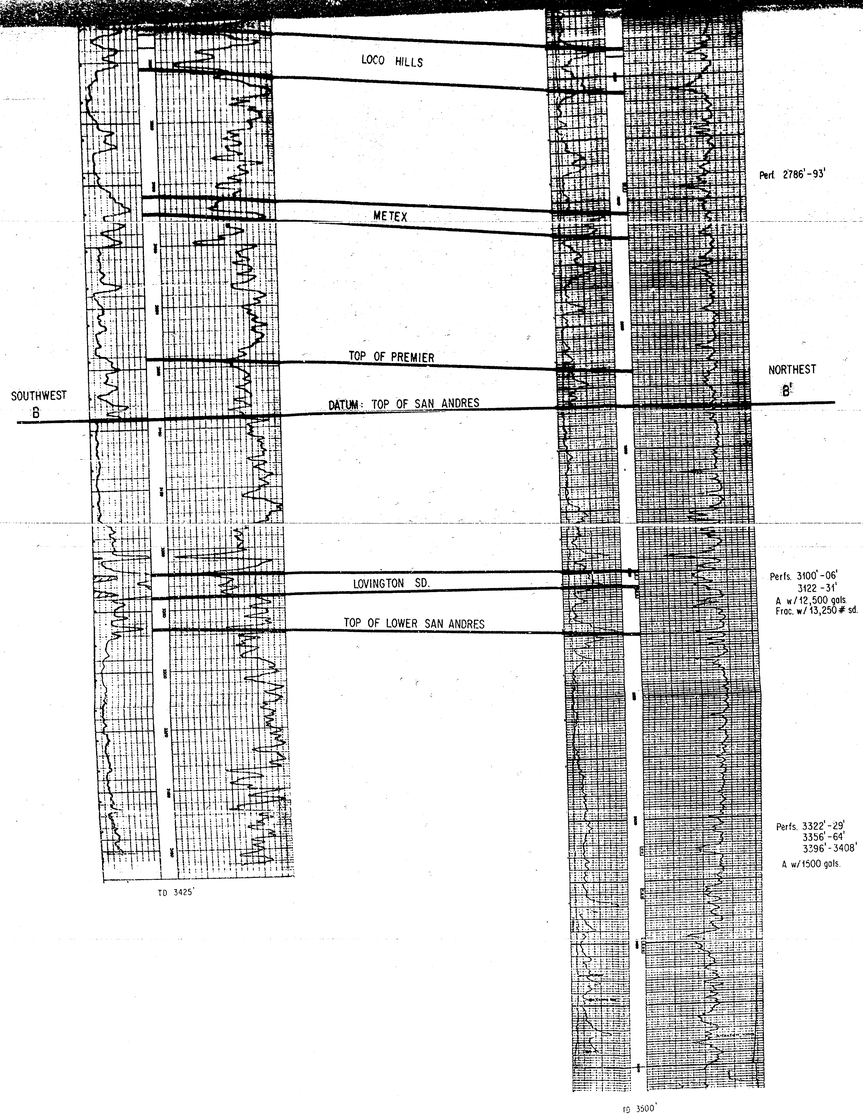


EXHIBIT IV
DOCKET # 7277

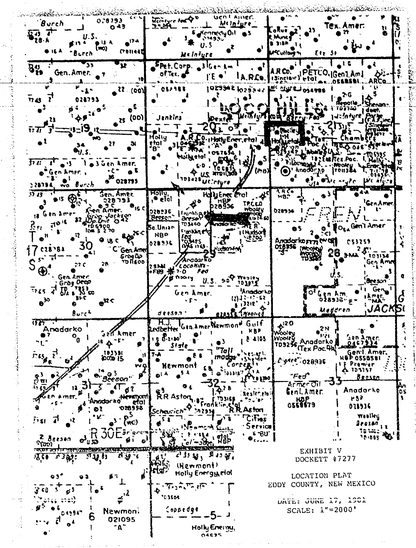
STRATIGRAPHIC CROSS SECTION B-B'

EDDY COUNTY, NEW MEXICO

DATUM : TOP OF SAN ANDRES
SCALE : VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE : JUNE 17, 1981

N.M.O.C.D. PHOTOGRAPHICS

BEST AVAILABLE COPY


T 17 S
R 30E
30
31
32
33
6
5
Newmont
Holly Energy
Copperedge
Newmont
Holly Energy
Anadarko
Gen. Amer.
Amer. Cit
Gen. Amer.
Anadarko
Wesley Pruitt
Anadarko
Gen. Amer.
Newmont
Gulf
Anadarko
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Newmont
Gen. Amer.

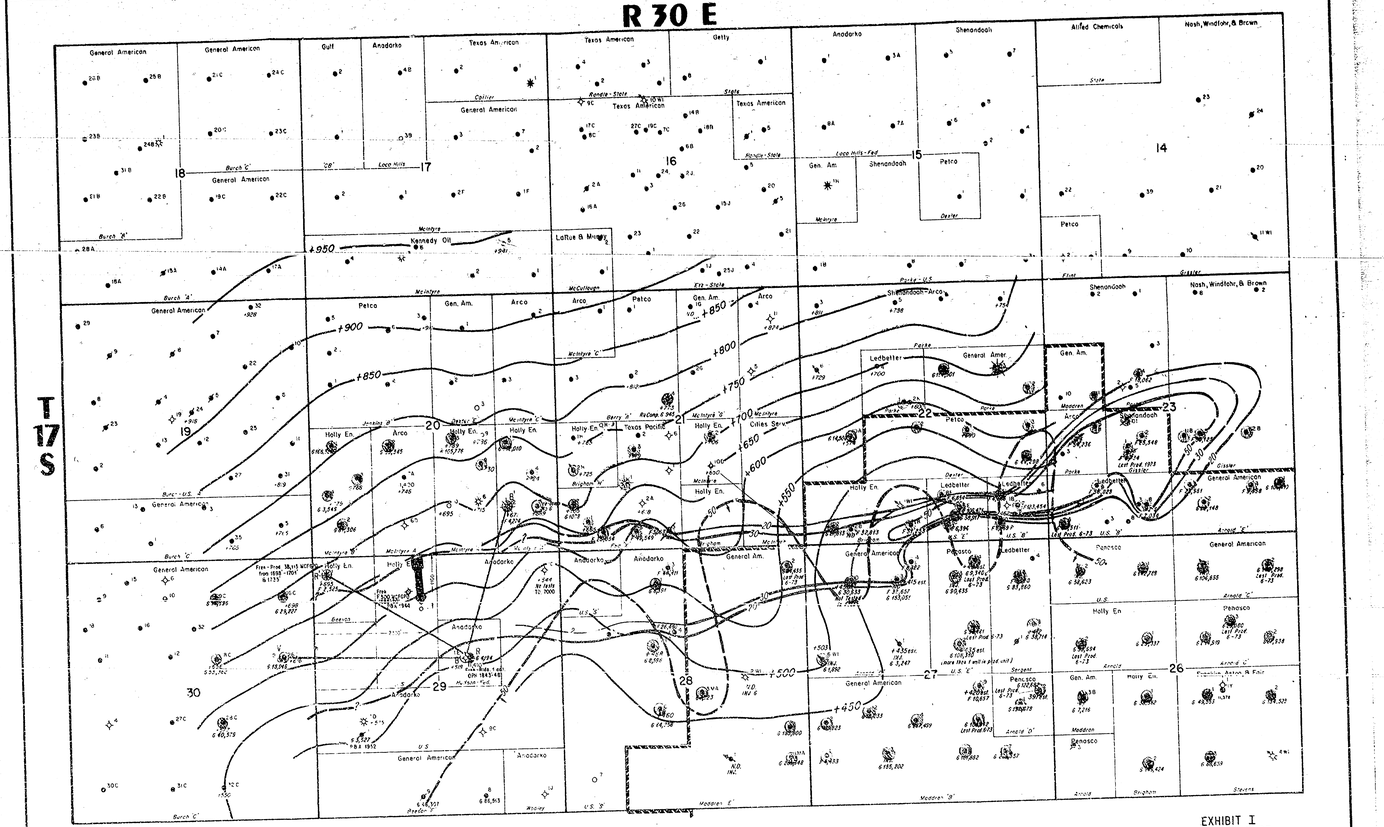


EXHIBIT I
DOCKET # 7277

HOLLY ENERGY, INC.

LOCO HILLS PROSPECT
GRAYBURG - JACKSON FIELD
STRUCTURE CONTOUR MAP
TOP SAN ANDRES FORMATION
EDDY COUNTY, NEW MEXICO
C.I. = 50'
1" = 1000'
DATE: JUNE 17, 1981
BY D.L. EIGE

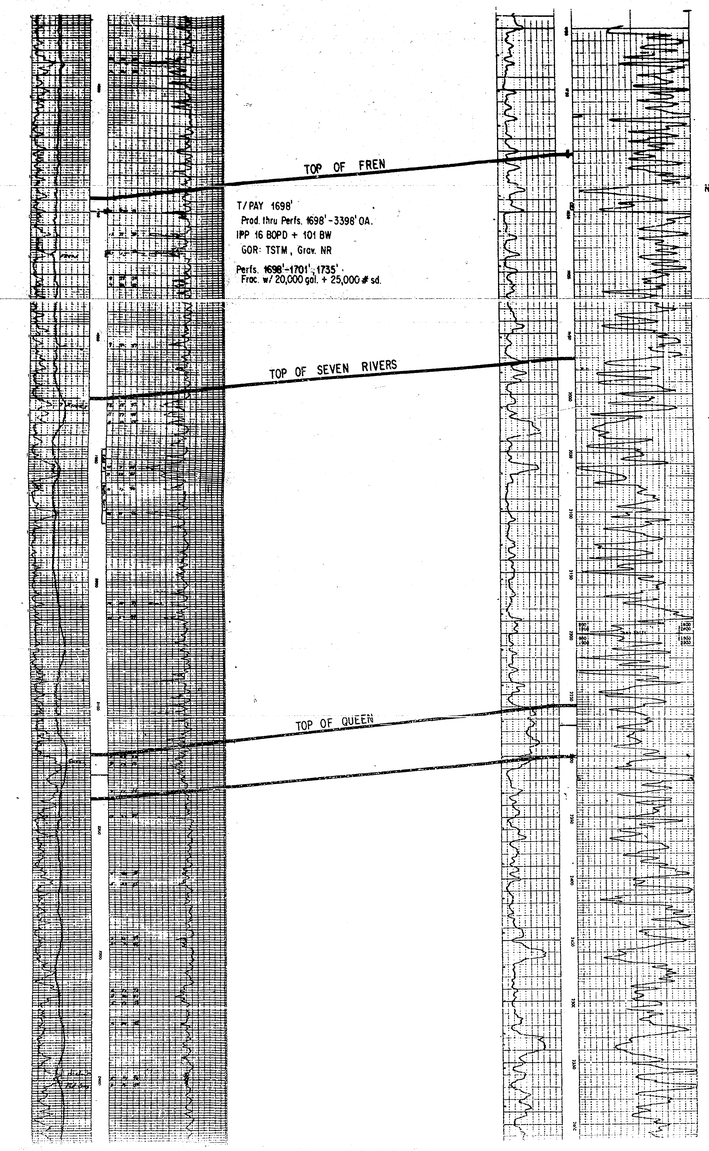
W.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

HOLLY ENERGY, INC.
 # 1 Beeson

330' FNL, 330' FWL
Sec. 29 T 17 S R 30 E
ELEV. 3615' KB

FRANKLIN, ASTON, & FAIR
 # 1 Ex-Federal

1980' FNL, 1980' FEL
Sec. 29 T 17 S R 30E
ELEV. 3610' DF



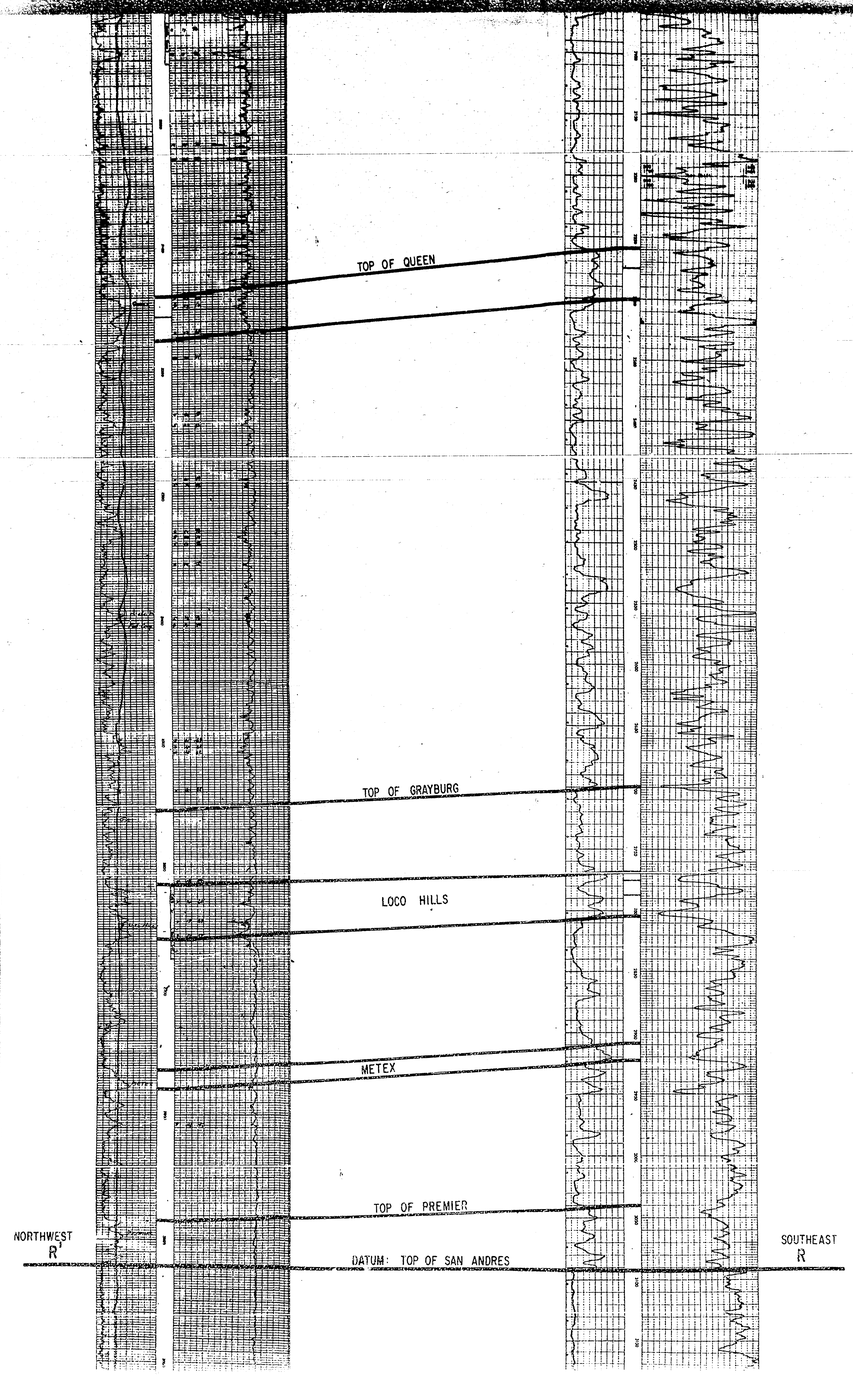
T/PAY 1698'
Prod. thru Perfs. 1698' - 3398' OA.
IPP 16 BOPD + 101 BW
GOR: TSTM, Grav. NR

Perfs. 1698'-1701', 1735'.
Frac. w/ 20,000 gal. + 25,000 # sd.

NO CORES OR TESTS
Bldg. 1 gal. Oil PH.
from 1843 - 48'

U.S.G.S. MICROGRAPHICS

BEST AVAILABLE COPY



U.S.G.S. PHOTOGRAPHIC

BEST AVAILABLE COPY

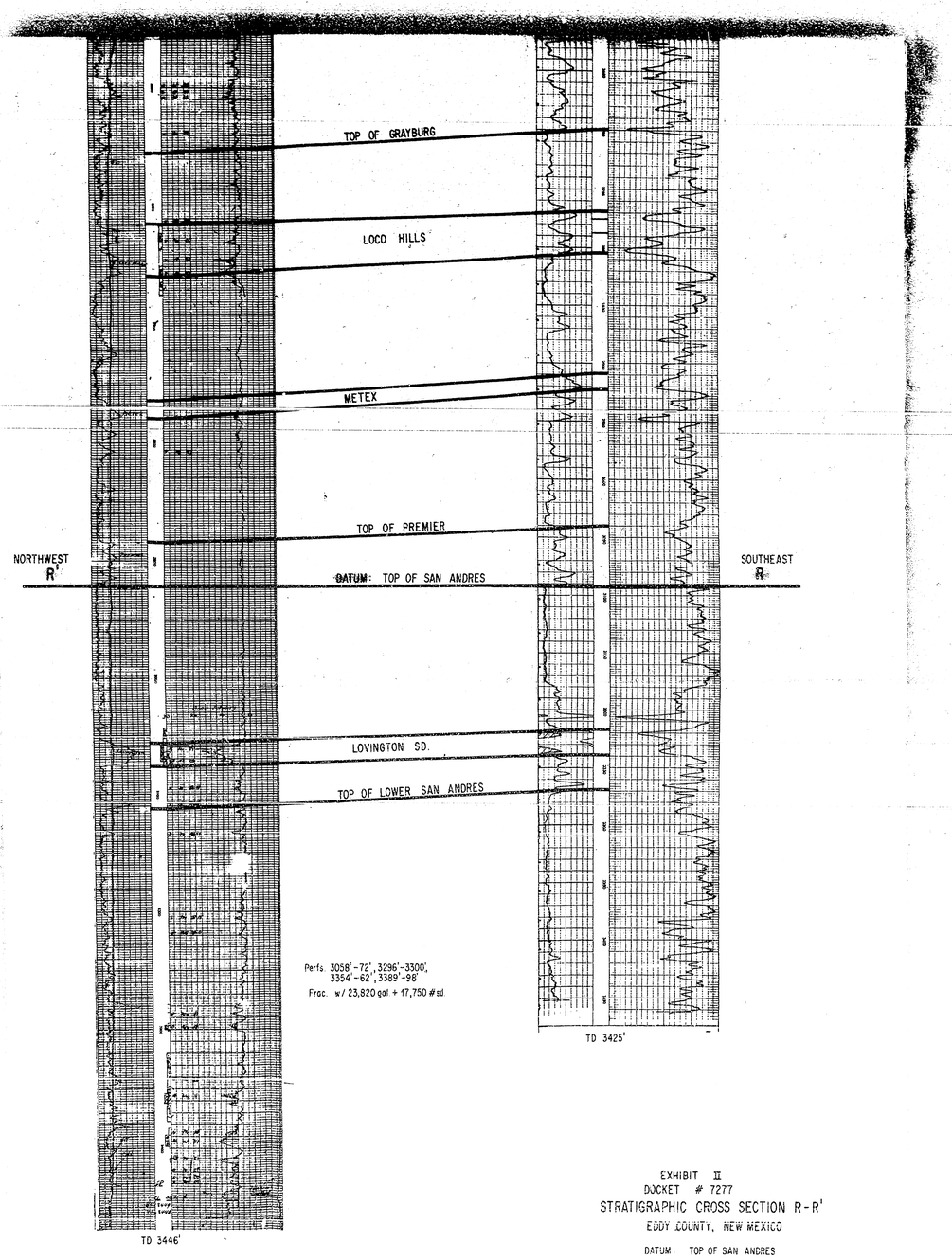


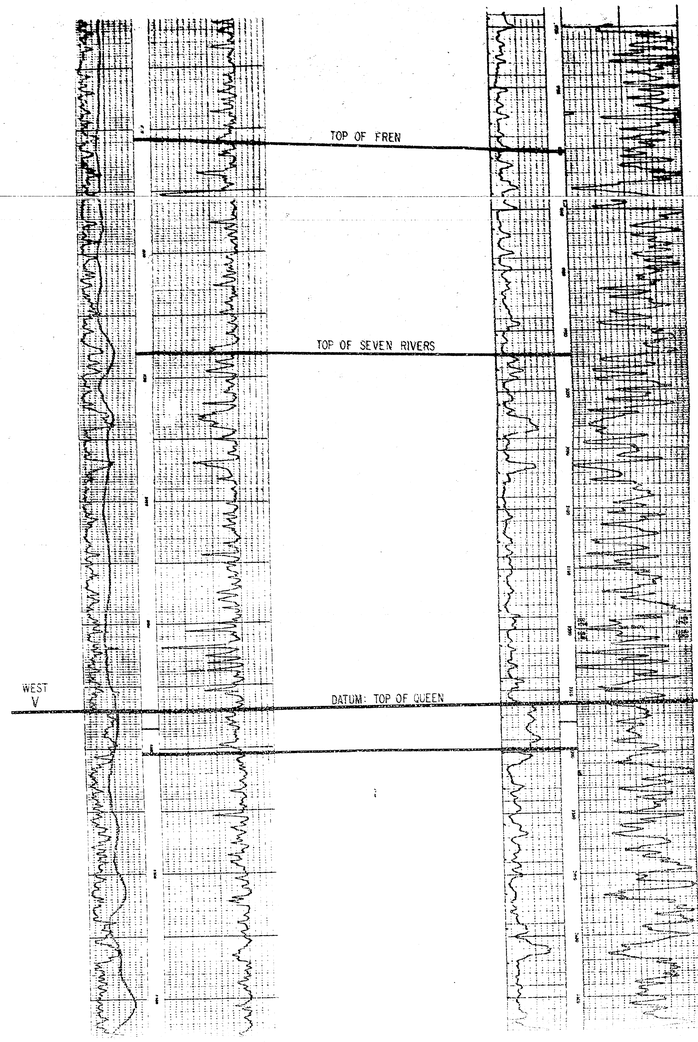
EXHIBIT II
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION R-R'
EDDY COUNTY, NEW MEXICO

DATUM: TOP OF SAN ANDRES
SCALE: VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

BEST AVAILABLE COPY

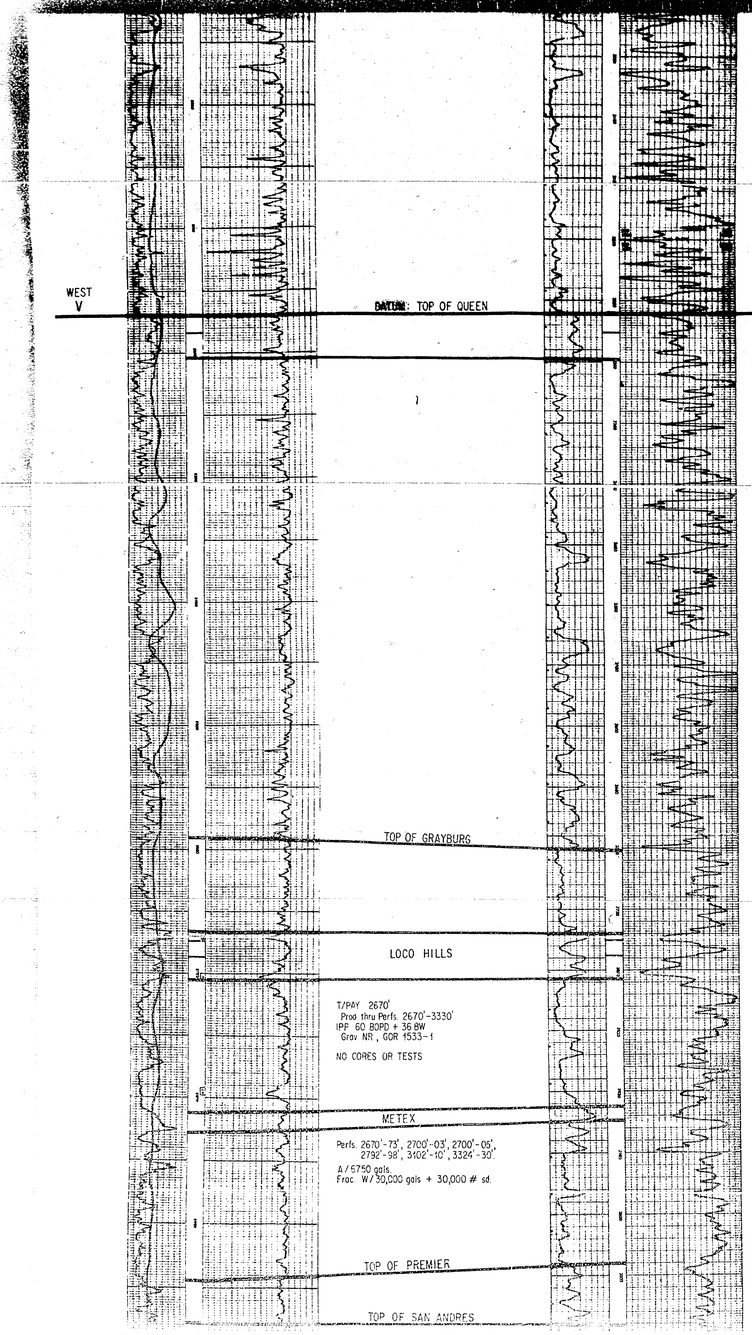
GENERAL AMERICAN
#26 Burch 'b'
1980' FNL, 660' FEL
Sec 30 T17S R30E
ELEV 3598' KB

FRANKLIN, ASTON, & FAIR
#1 Ex-Federal
1980' FNL, 1980' FEL
Sec 29 T17S R30E
ELEV 3610' DF



NO CORES OR TESTS
Drag Run on FR.
from 1643'-48'

U.S.G.S. MICROGRAPHICS
PART AVAILABLE ONLY



A.R.M.A. MICROGRAPHICS
BEST AVAILABLE COPY

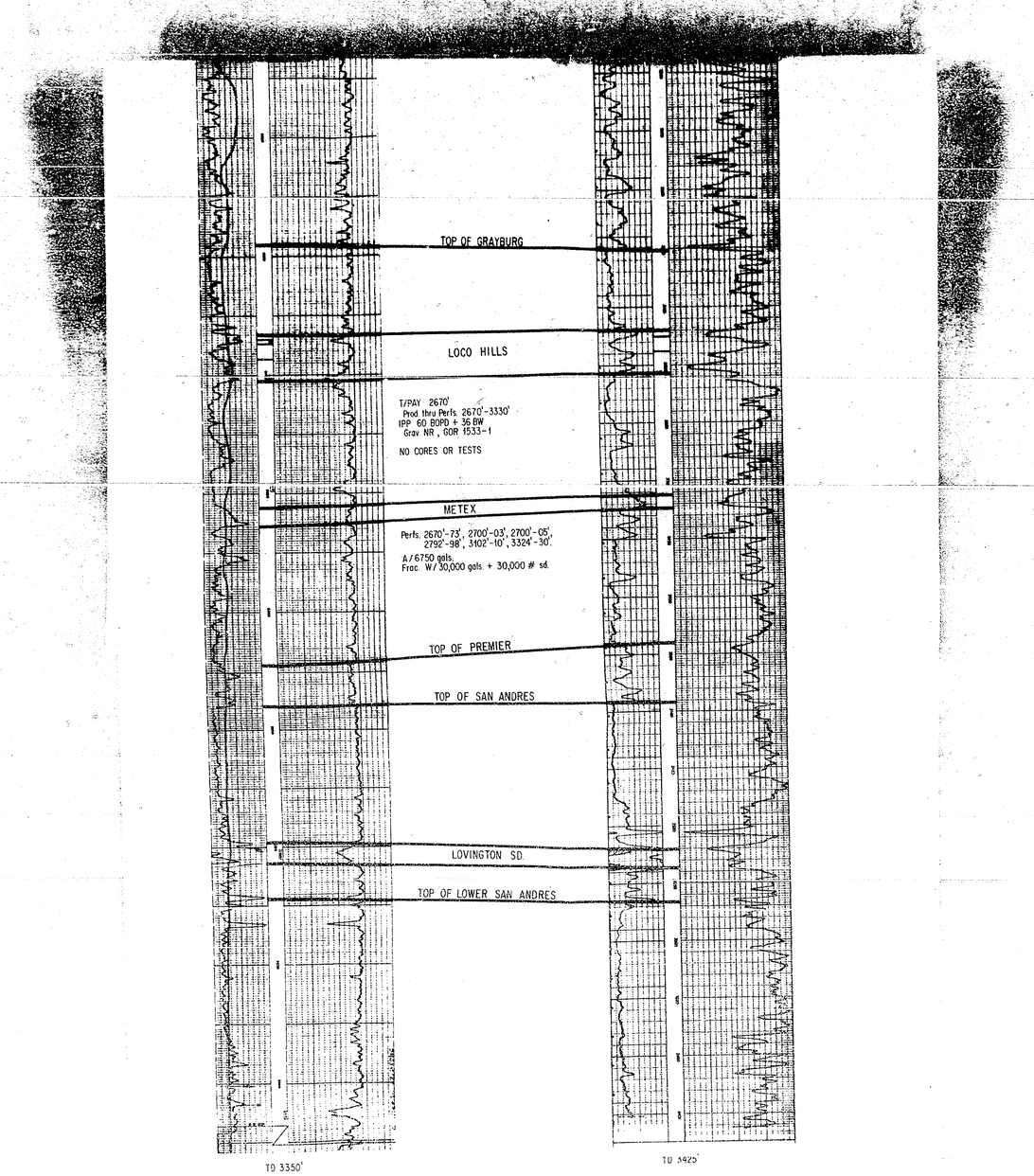


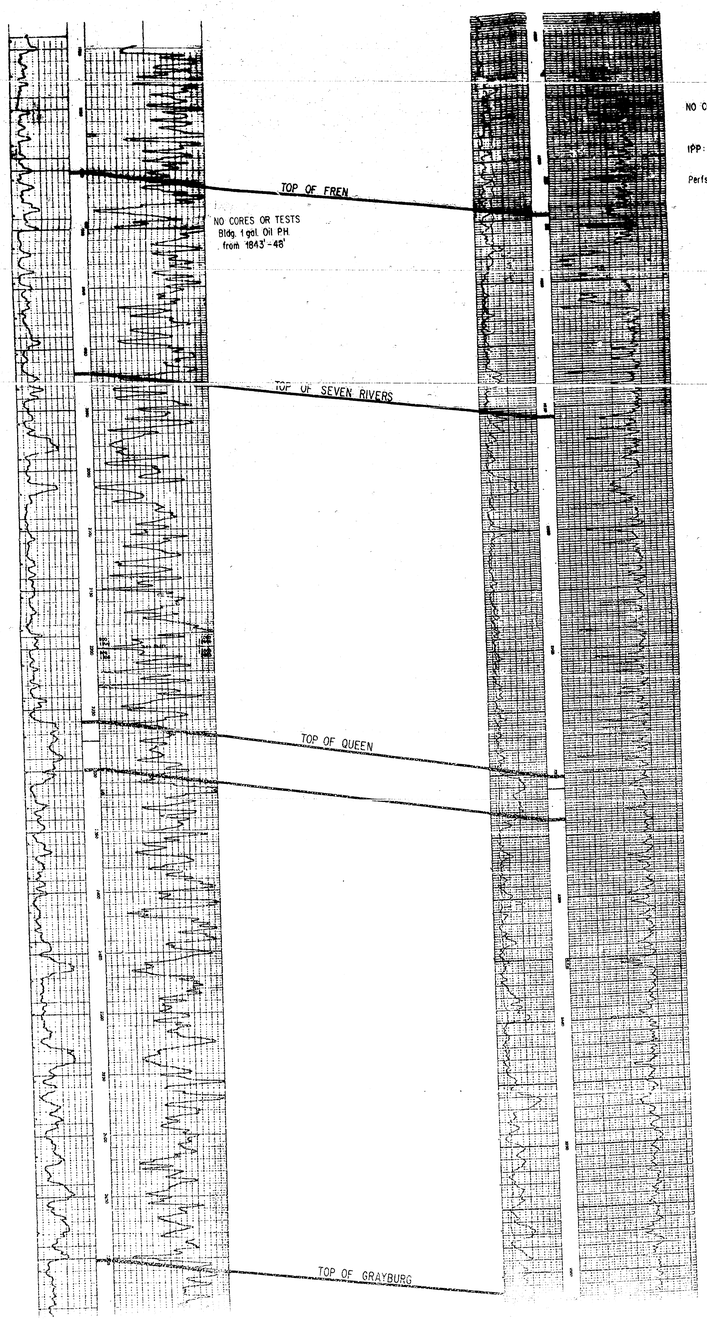
EXHIBIT III
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION V-R
EDDY COUNTY, NEW MEXICO

DATUM TOP OF QUEEN
SCALE VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE JUNE 17, 1981

BEST AVAILABLE COPY

FRANKLIN, ASTON, & FAIR
#1 Ex - Federal
1980' FNL, 1980' FEL
Sec. 29 T17S R30E
ELEV. 3610' DF

HOLLY ENERGY, INC.
#2A McIntyre
990' FSL, 990' FEL
Sec. 20 T17S R30E
ELEV. 3637' KB



NO CORES OR TESTS
Bldg. 1 gal. Oil P.H. from 1843' - 48'

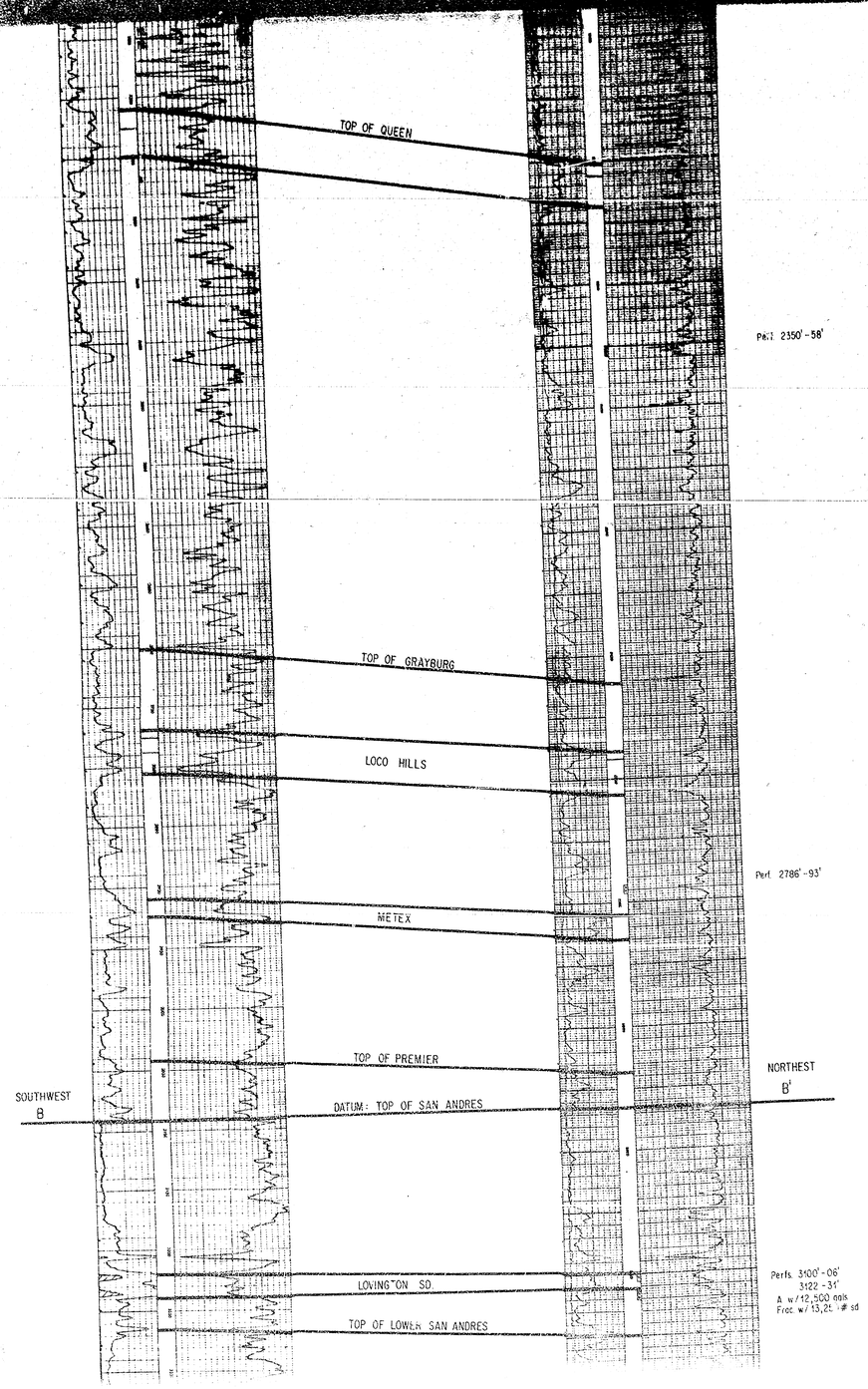
NO CORES OR TESTS

IPP: 55 BO + 40 BW

Perfs. 1715' - 20'
1754' - 58'

Perf. 2350' - 58'

BEST AVAILABLE COPY


TOP OF QUEEN
Perf. 2350'-58'
TOP OF GRAYBURG
LOCO HILLS
Perf. 2786'-93'
METEX
TOP OF PREMIER
SOUTHWEST
B
DATUM: TOP OF SAN ANDRES
NORTHEST
B'
LOVINGTON SD
Perfs. 3100'-06'
3122'-31'
A w/12,500 gals
Frac w/ 13,2[illegible] # sd
TOP OF LOWER SAN ANDRES

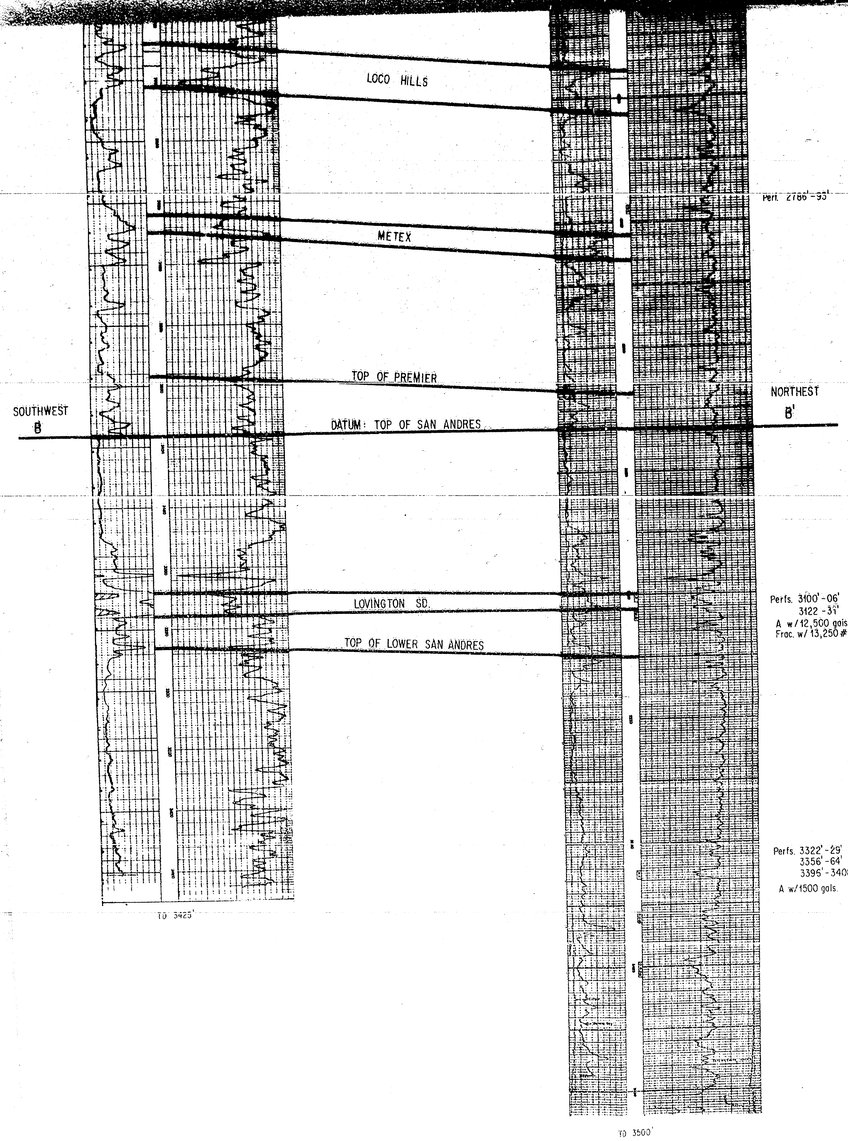


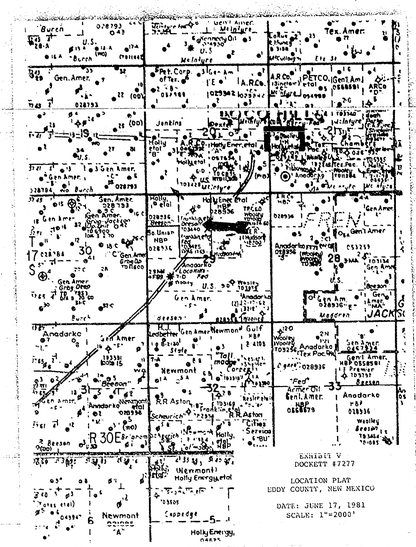
EXHIBIT IV
DOCKET # 7277

STRATIGRAPHIC CROSS SECTION B-B'

EDDY COUNTY, NEW MEXICO

DATUM: TOP OF SAN ANDRES
SCALE: VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

BEST AVAILABLE COPY


T 17 S
R 30E
Gen. Amer.
Tex. Amer.
A.R.Co.
PETCO
Gent Am
Holly Energy
Newmont
Anadarko
Gulf
Conoco
Meridian
Jenkins
Burch
Mesquite
Wesley Anson
Cooper
Holly Energy Gas
Newmont Holly Energy Gas
Cooper Gas
Holly Energy Gas
Anadarko Gas
Wesley Anson Gas
Gent Amer. Gas
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Newmont Gas
Gulf Gas
Conoco Gas
Anadarko Tex Pac Gas
Gen. Amer. Oil
Newmont Oil
Gulf Oil
Anadarko Oil
Conoco Oil
Gen. Amer. Gas
Gen. Amer. Grey Deep
Gen. Amer. Wolfcamp
Gen. Amer. Penn
Gen. Amer. Morrow
Gen. Amer. Atoka
Gen. Amer. Strawn
Gen. Amer. Abo
Gen. Amer. Devon
Gen. Amer. Ellenburger
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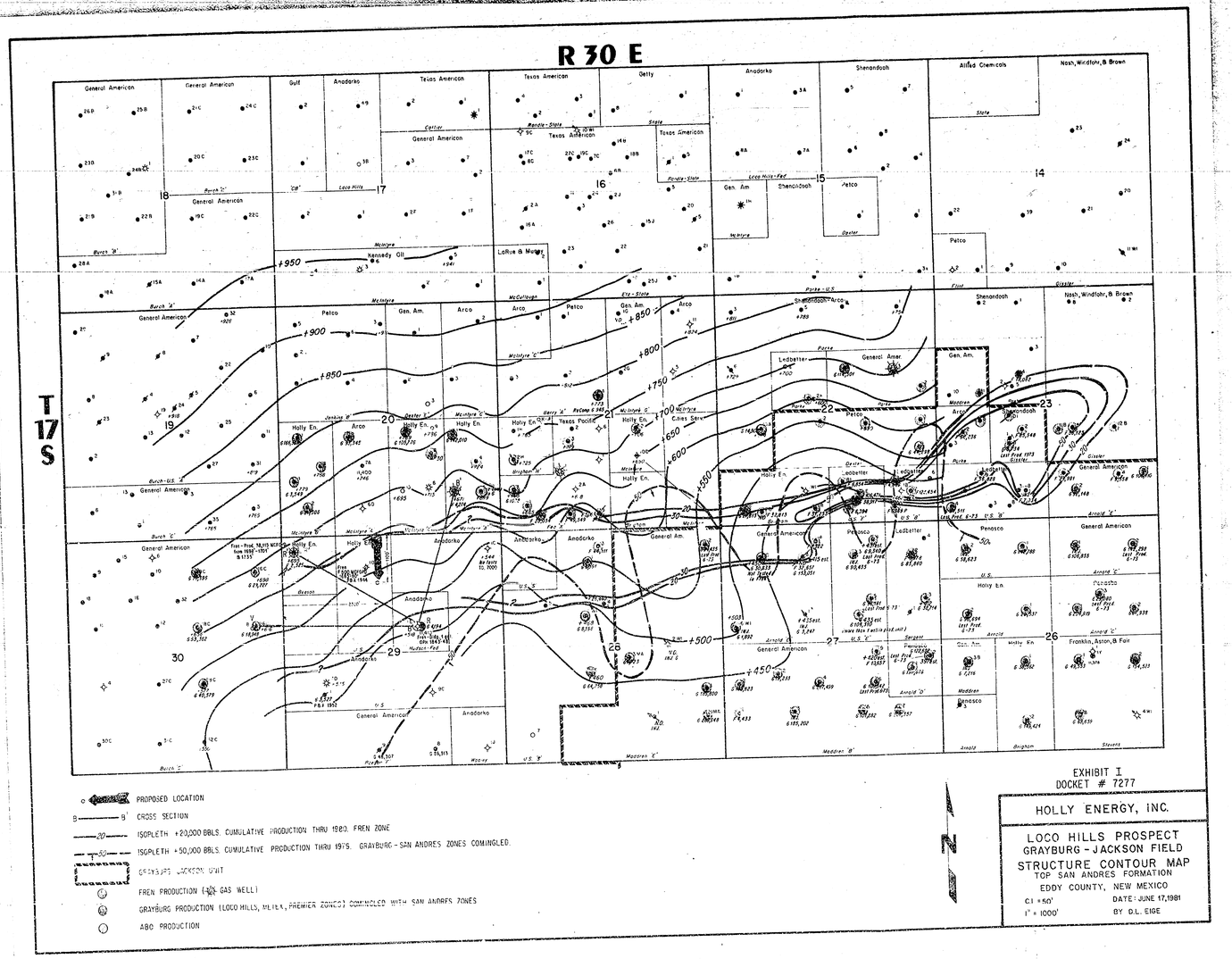
R 30 E
T 17 S
General American
Gulf
Anadarko
Texas American
Getty
Shenandoah
Atlantic Richfield
Nash, Windfohr, & Brown
Kennedy Oil
LaRue & Mundy
Petco
Gen. Am.
Arco
Holly En.
Texas Pacific
Cities Service
Leabetter
Penasco
Franklin, Aston, & Fair
Loco Hills
McIntyre
McCullough
Burch 'A'
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Madden 'Y'
Madden 'Z'
Meyers
Grayson
Hudson-Ford
Ohio-Ford
Ohio-Federal
Ohio-State
Texas-U.S.
Texas-State
Florida-State
Florida-U.S.
Loco Hills-Fed
Loco Hills-State
Cotton
Randle-State
Oyster
Flint
Glister
Brigham
Stevens
Jessup
Meyers
U.S. 'A'
U.S. 'B'
U.S. 'C'
U.S. 'D'
U.S. 'E'
U.S. 'F'
U.S. 'G'
U.S. 'H'
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U.S. 'X'
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U.S. 'Z'
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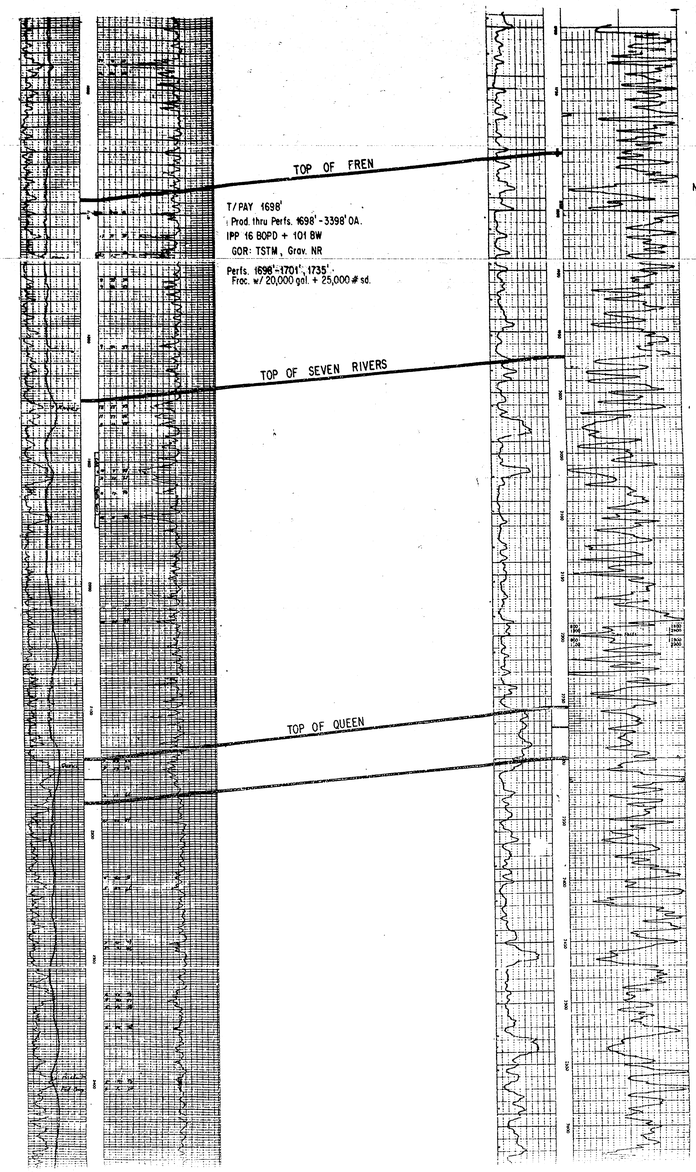
-1650
-1700
-1750
-1800
-1850
-1900
-1950
-2000

HOLLY ENERGY, INC.
#1 Beeson

330' FNL, 330' FWL
Sec. 29 T17S R30E
ELEV. 3615' KB

FRANKLIN, ASTON, & FAIR
#1 Ex-Federal

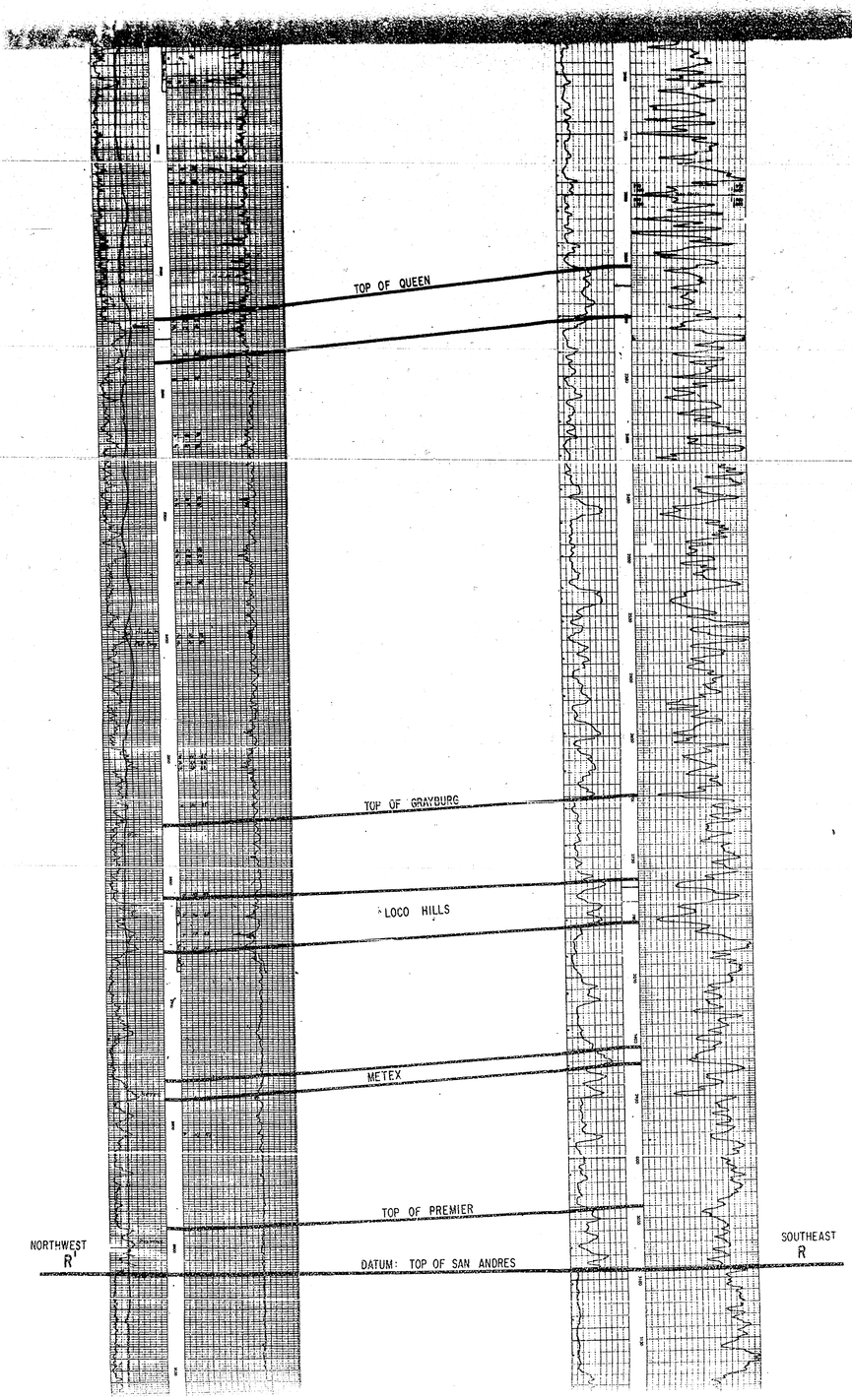
1980' FNL, 1980' FEL
Sec. 29 T17S R30E
ELEV. 3610' DF



NO CORES OR TESTS
Bldg. 4 got OH. P.H. from 1843 - 48'

W.P.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



N.A.R.A. MICROGRAPHICS
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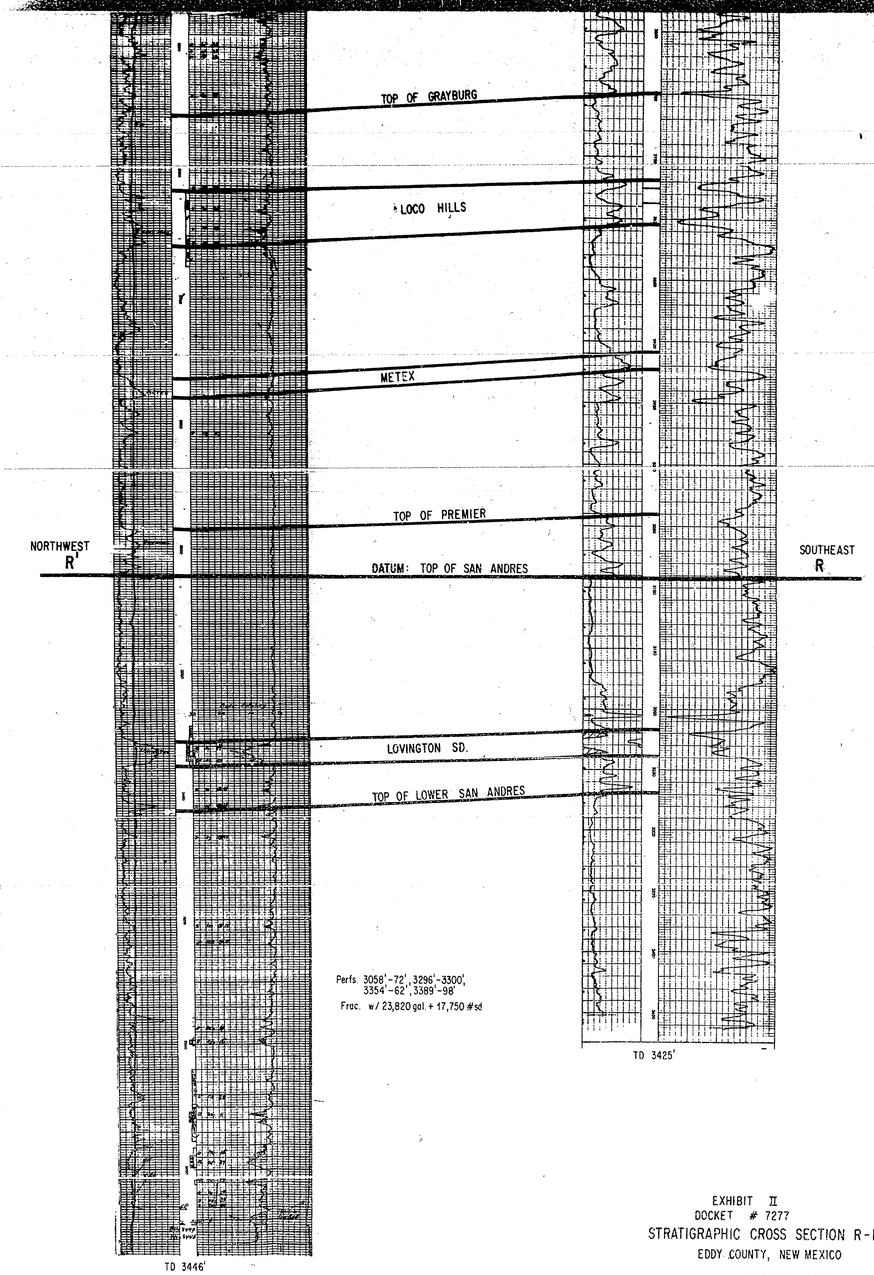


EXHIBIT II
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION R-R'
EDDY COUNTY, NEW MEXICO

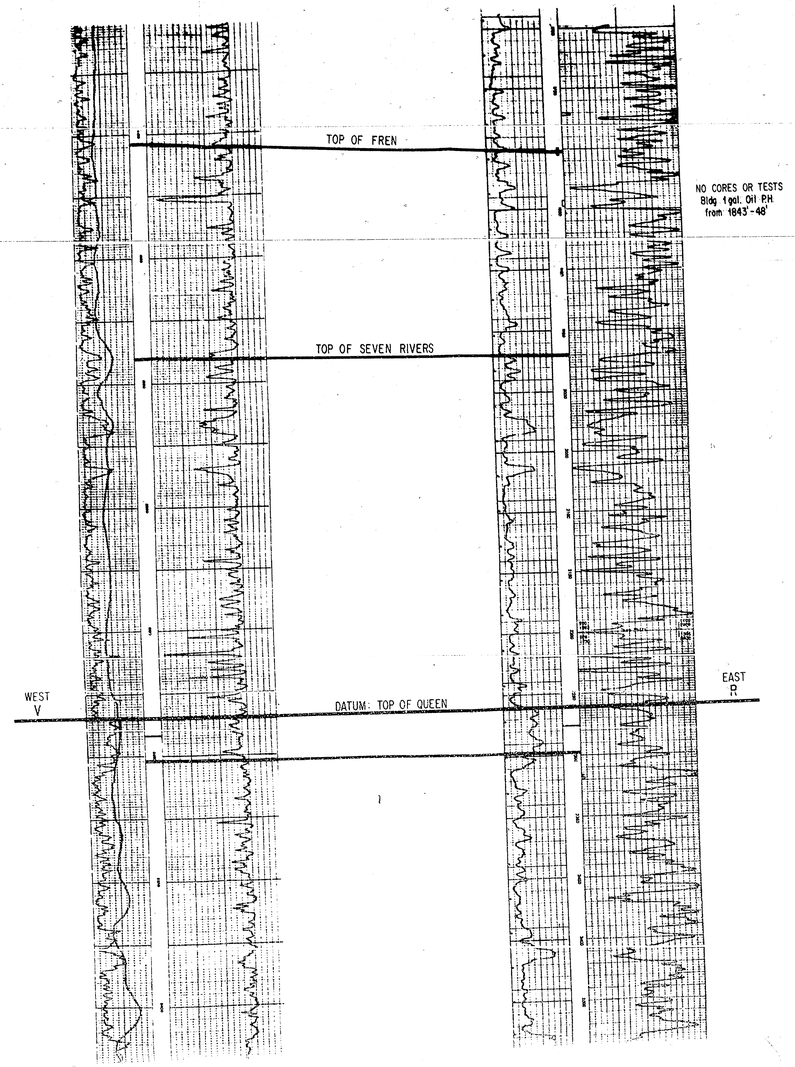
DATUM TOP OF SAN ANDRES
SCALE : VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE : JUNE 17, 1981

N.M.O.C.D. MICROGRAPHICS

BEST AVAILABLE COPY

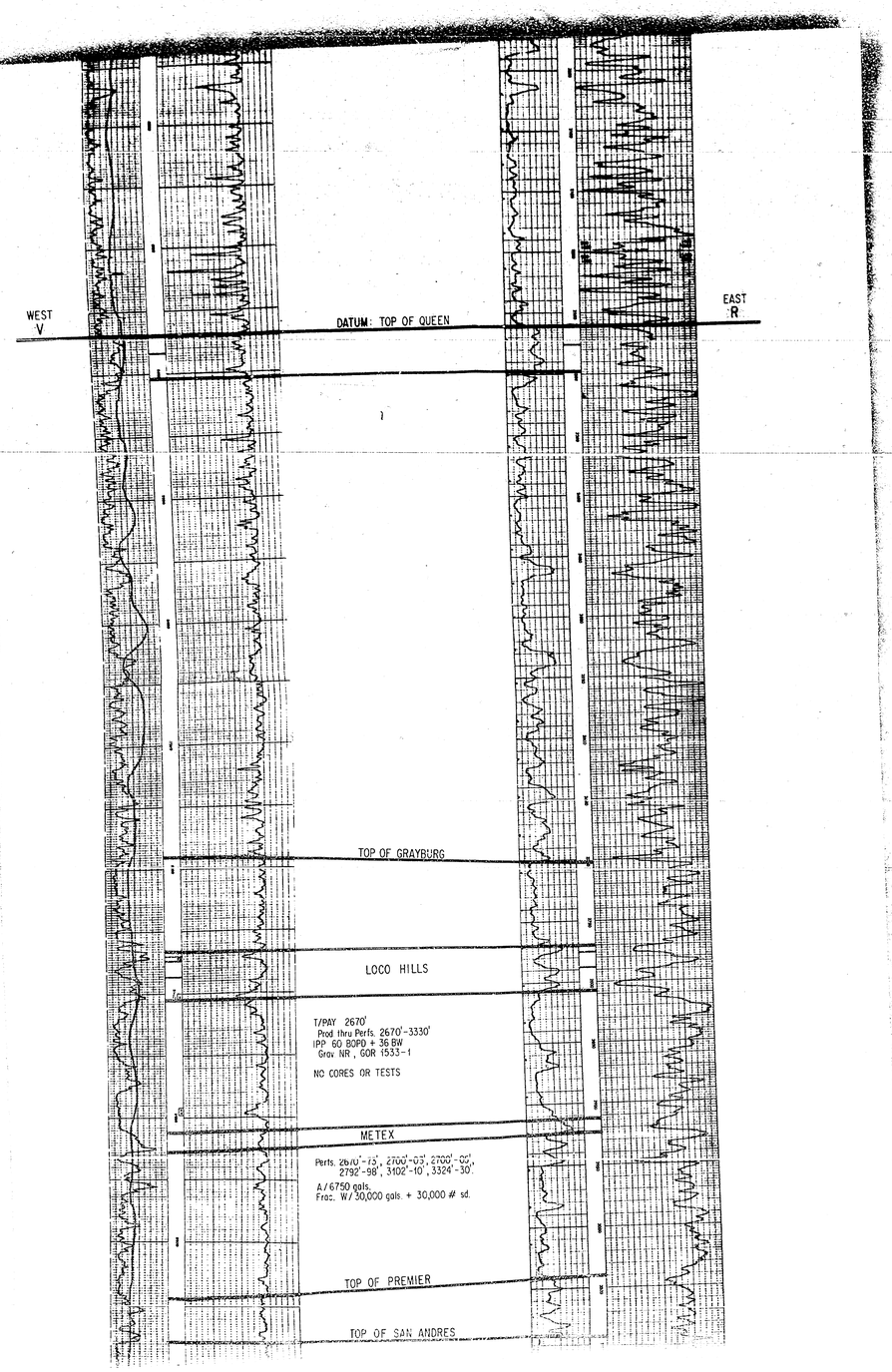
GENERAL AMERICAN
#26 Burch 'C'
1980' FNL, 660' FEL
Sec 30 T17S R30E
ELEV. 3598' KB

FRANKLIN, ASTON, & FAIR
#1 Ex.-Federal
1980' FNL, 1980' FEL
Sec 29 T17S R30E
ELEV. 3610' DF



NO CORES OR TESTS
Bldg. 1 gal. Oil P.H.
from 1843' - 48'

BEST AVAILABLE COPY



U.S.D.I.-G.S. MICROGRAPHICS

BEST AVAILABLE COPY

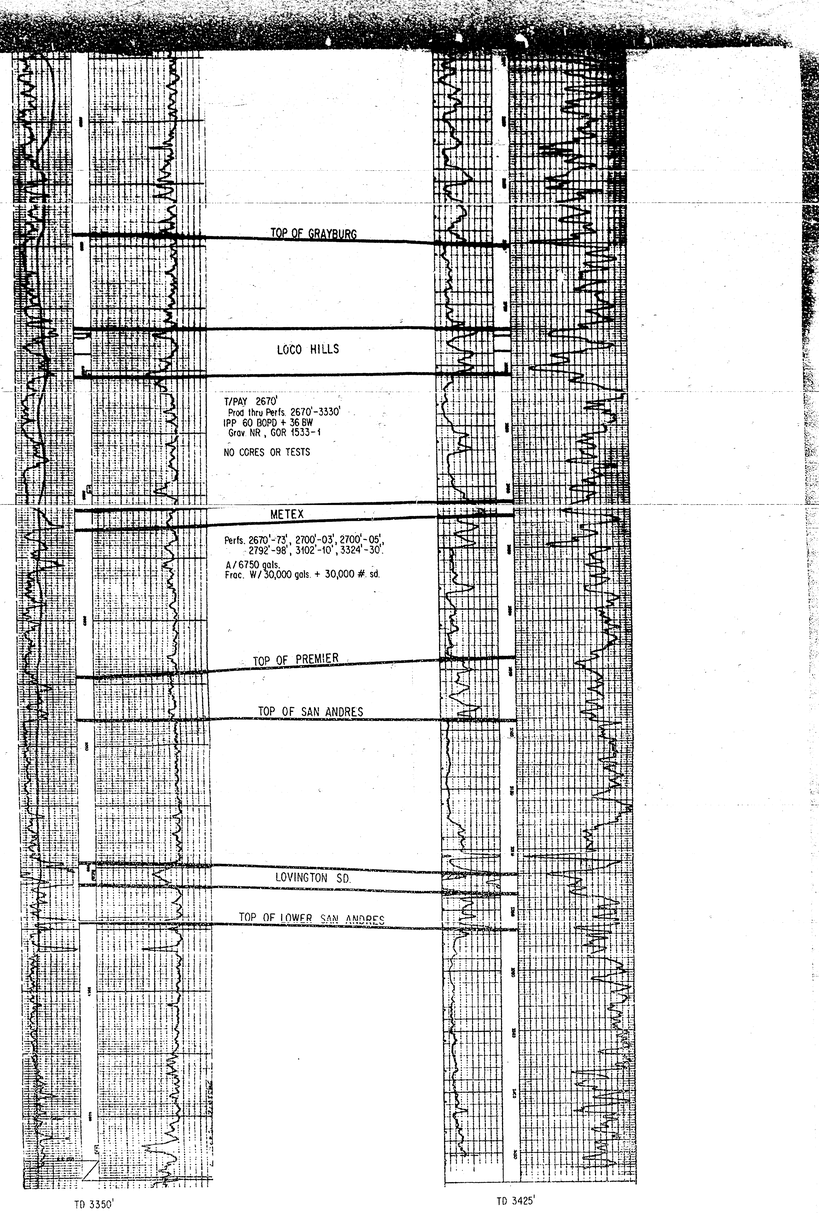


EXHIBIT III
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION V-R
EDDY COUNTY, NEW MEXICO

DATUM TOP OF QUEEN
SCALE: VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE: JUNE 17, 1981

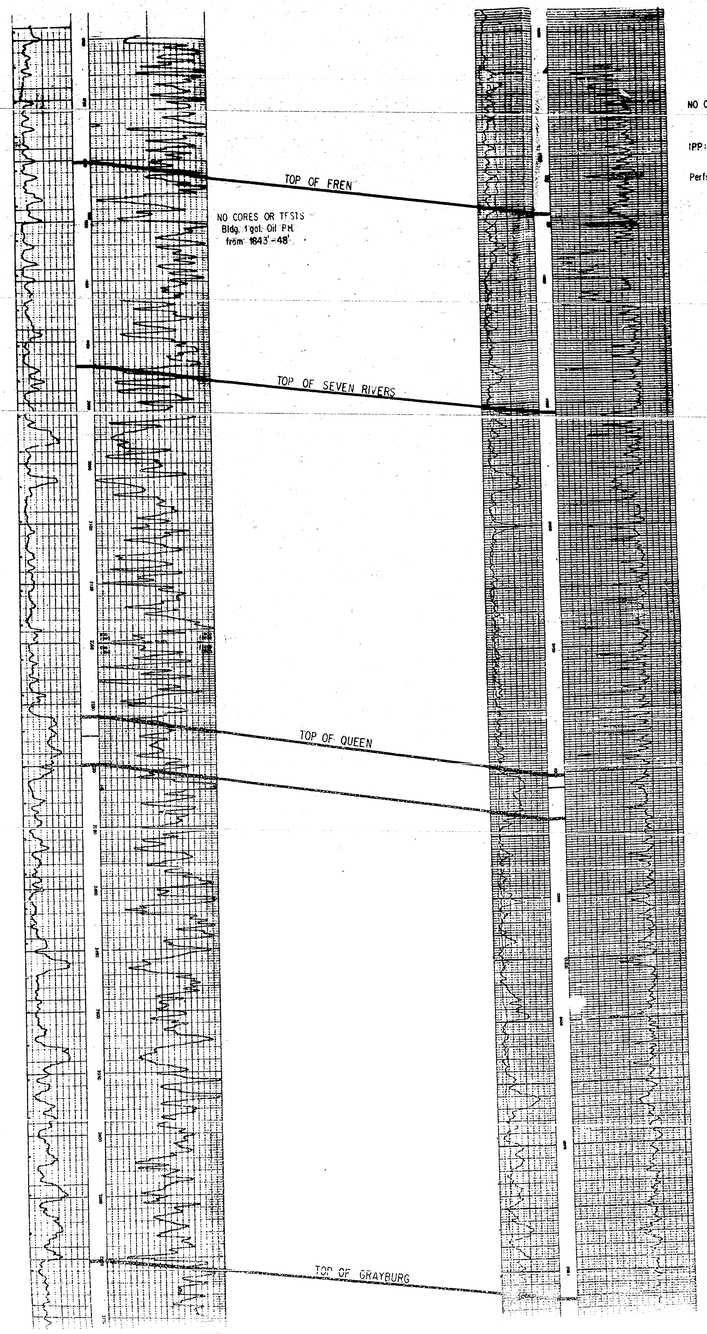
BEST AVAILABLE COPY

FRANKLIN, ASTON, & FAIR
#1 Ex - Federal

1980' FNL, 1980' FEL
Sec. 29 T17S R30E
ELEV 3610' DF

HOLLY ENERGY, INC.
#2A McIntyre

990' FSL, 990' FEL
Sec. 20 T17S R30E
ELEV. 3637' KB



NO CORES OR TESTS
Bldg. 1 got. Oil Fm.
from: 1843'-48'.

NO CORES OR TESTS

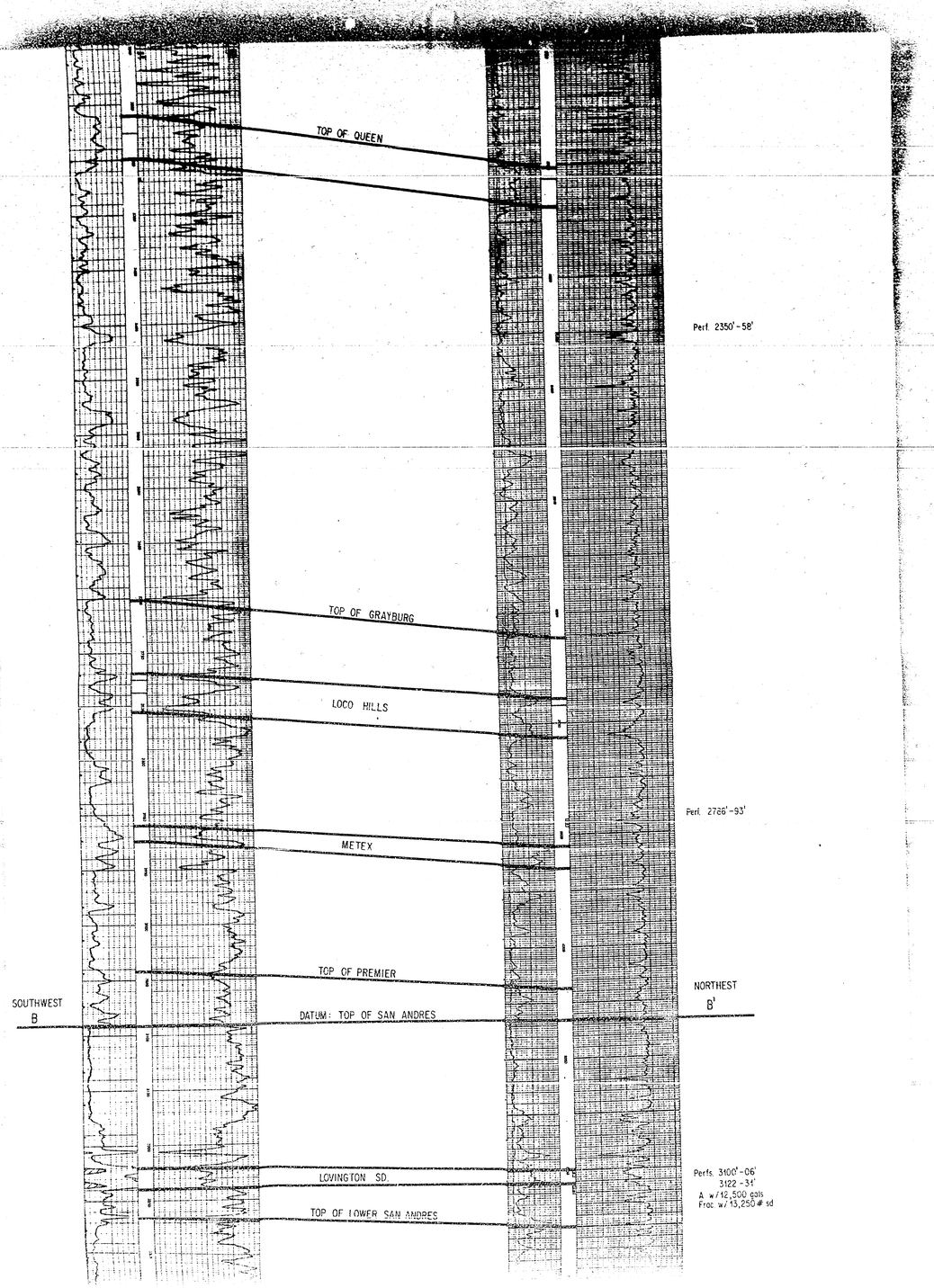
IPP: 55 BO + 40 BW

Perfs. 1715'-20'
1754'-58'

Perf. 2350'-58'

U.M.I. MICROFILMED

BEST AVAILABLE COPY



N.M.O.C.C. MICROGRAPHICS
BEST AVAILABLE COPY

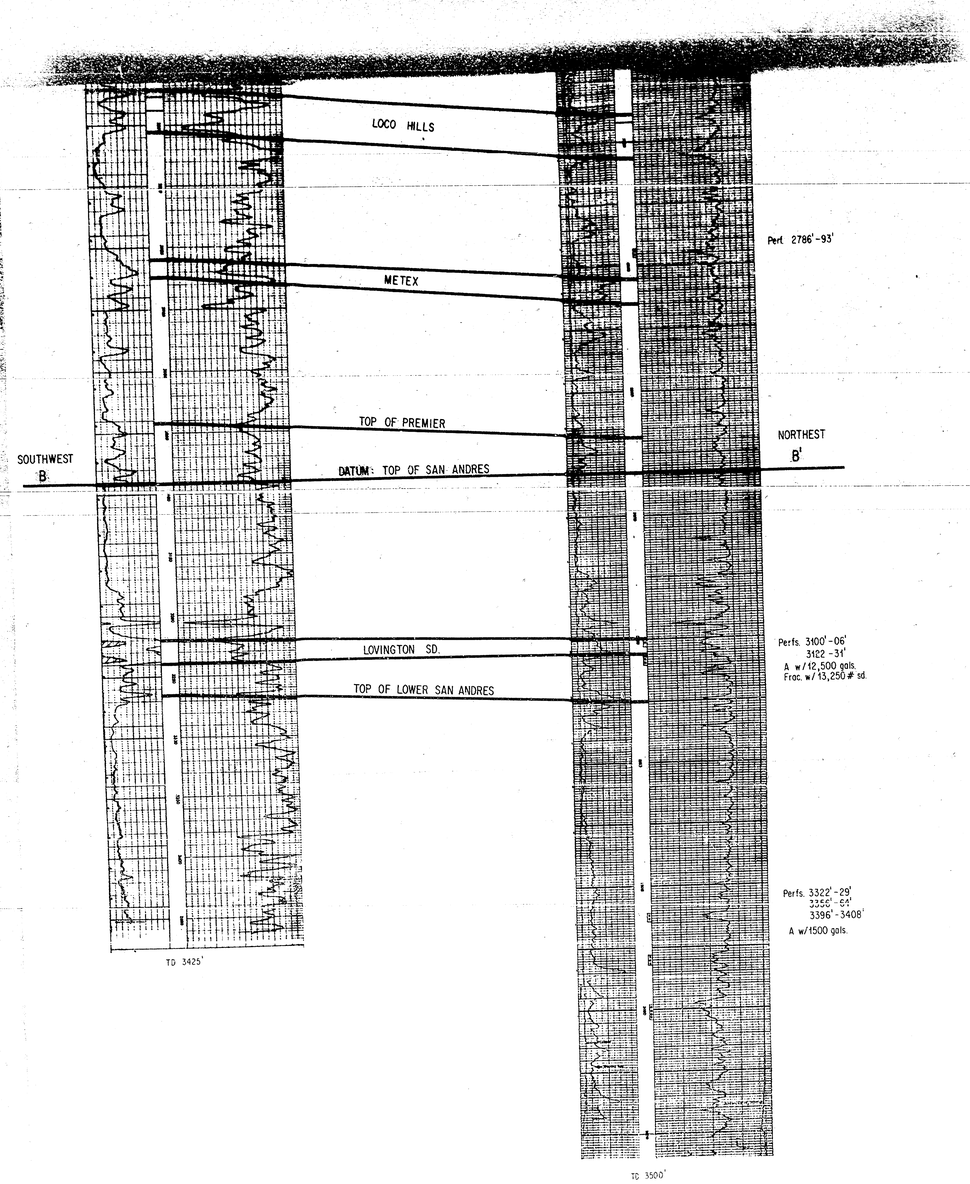


EXHIBIT IV
DOCKET # 7277
STRATIGRAPHIC CROSS SECTION B-B'
EDDY COUNTY, NEW MEXICO

DATUM : TOP OF SAN ANDRES
SCALE : VERTICAL- 2.5" = 100'
HORIZONTAL - N.T.S.
DATE JUNE 17, 1981

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