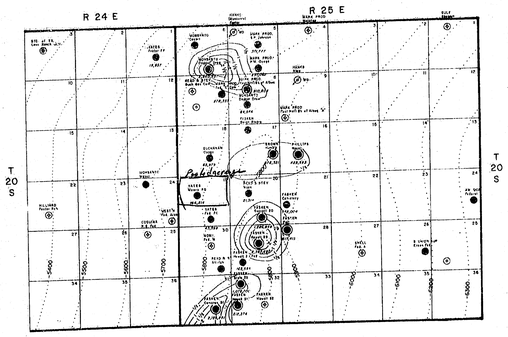
Case No
5893

Large Exhibits





KEY

——— 1/2 ——— Isopach Contours of Morrow Gas Production in BCF (CI= 1/2 BCF)

·····5600····· Structure Contours on Top of the Morrow Clastics (CI=100')

WELL LOCATIONS (Only wells which have penetrated the morrow are plotted)

- Morrow Gas Well (Number in Upper Penn. as of 9-77 in MCF)
- Atoka Gas Well
- Strawn Gas Well
- Wolfcamp Gas Well
- Dry Hole
- SI or P&A Gas Well
- WO Well (Only P&A)
- Location
- Gas Well which has or will pay out at $1.65/MCF with well cost of $400,000 and 75% Revenue

CEMETARY MORROW GAS FIELD
EDDY COUNTY, NEW MEXICO

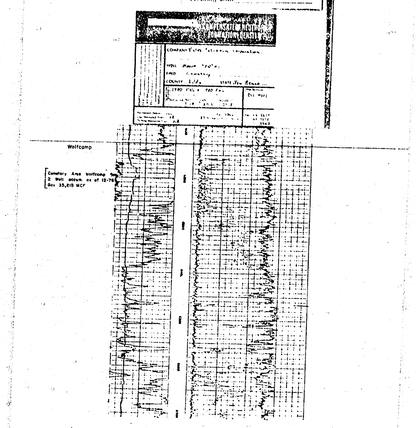
EXHIBIT

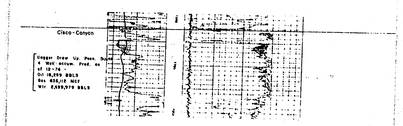
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 5893
Submitted by:
Hearing Date:

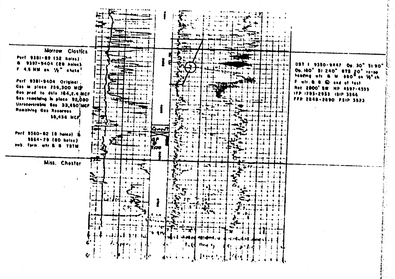
U.S.G.S. PHOTOGRAPHS
BEST AVAILABLE COPY

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 5193
Submitted by
Hearing Date

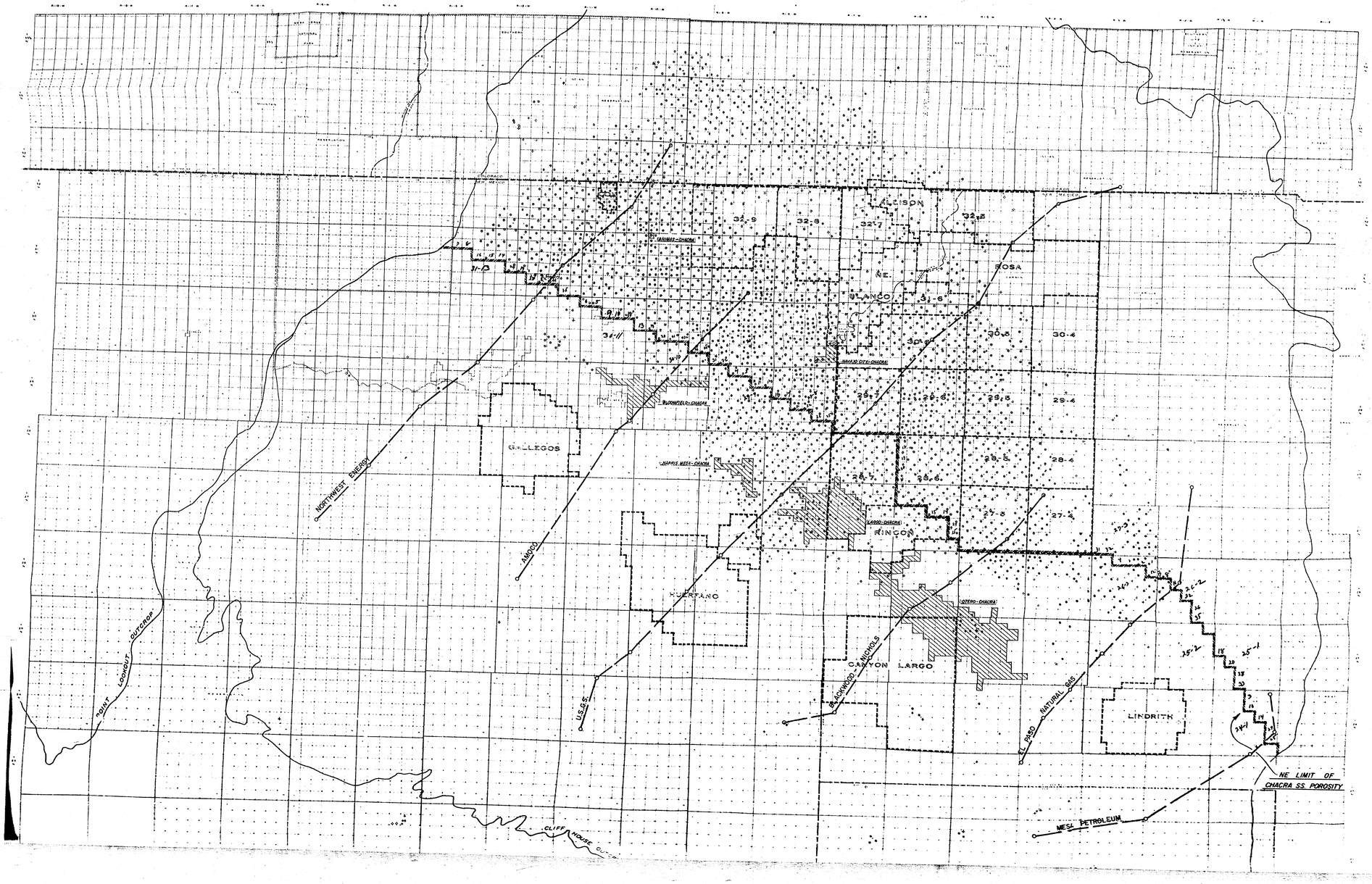
EXHIBIT







V.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



R. L. Stamets

R-110 - declination

R. L. Stamets

R-110 - dr. L. to

POINT LOOKOUT OUTCROP

CLIFF HOUSE OUTCROP

U.S.I.G.S.

CANYON LARGO

C. A. NICHOLS

BLACKWOOD

EL PASO NATURAL GAS

LINDRITH

MESA PETROLEUM

NE LIMIT OF CHACRA SS POROSITY

25-1

25-2

24-1

LEGEND

- Gas Well
- Oil Well
- Plugged & Abandoned
- Poors to 1/25/77

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 5893 Exhibit No. 2
Submitted by R.C. Bauman
Hearing Date 3/30/77

MESAVERDE STUDY GROUP

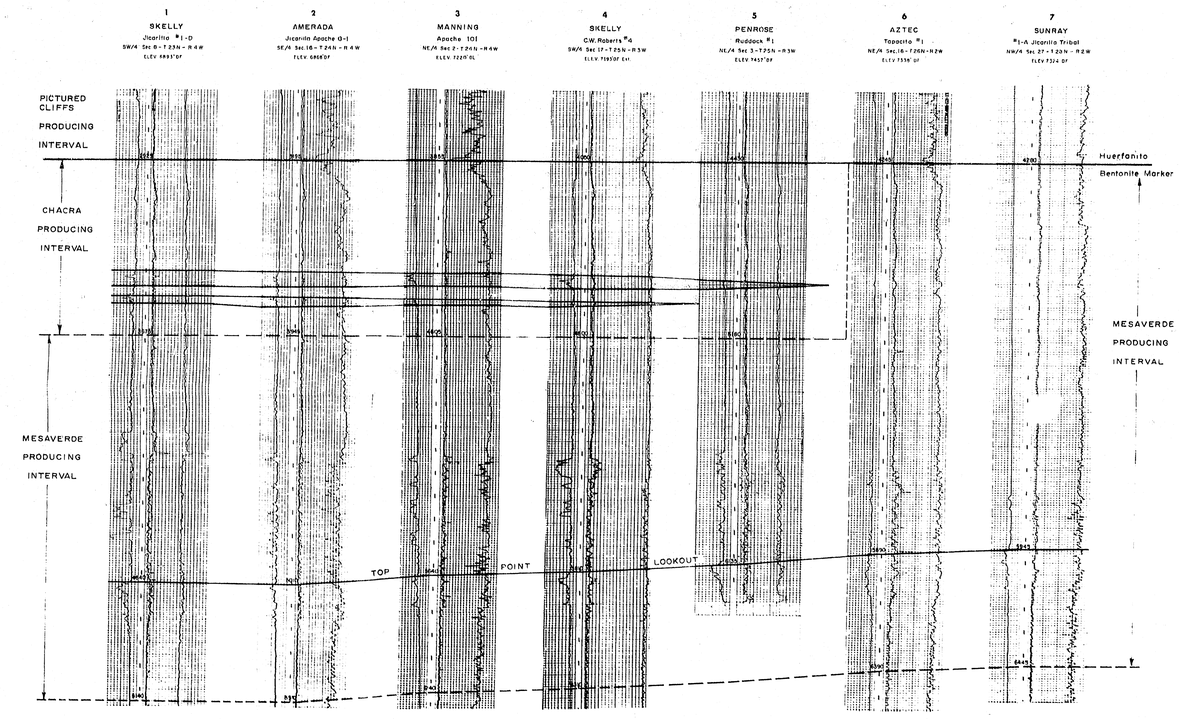
MESAVERDE DEVELOPMENT

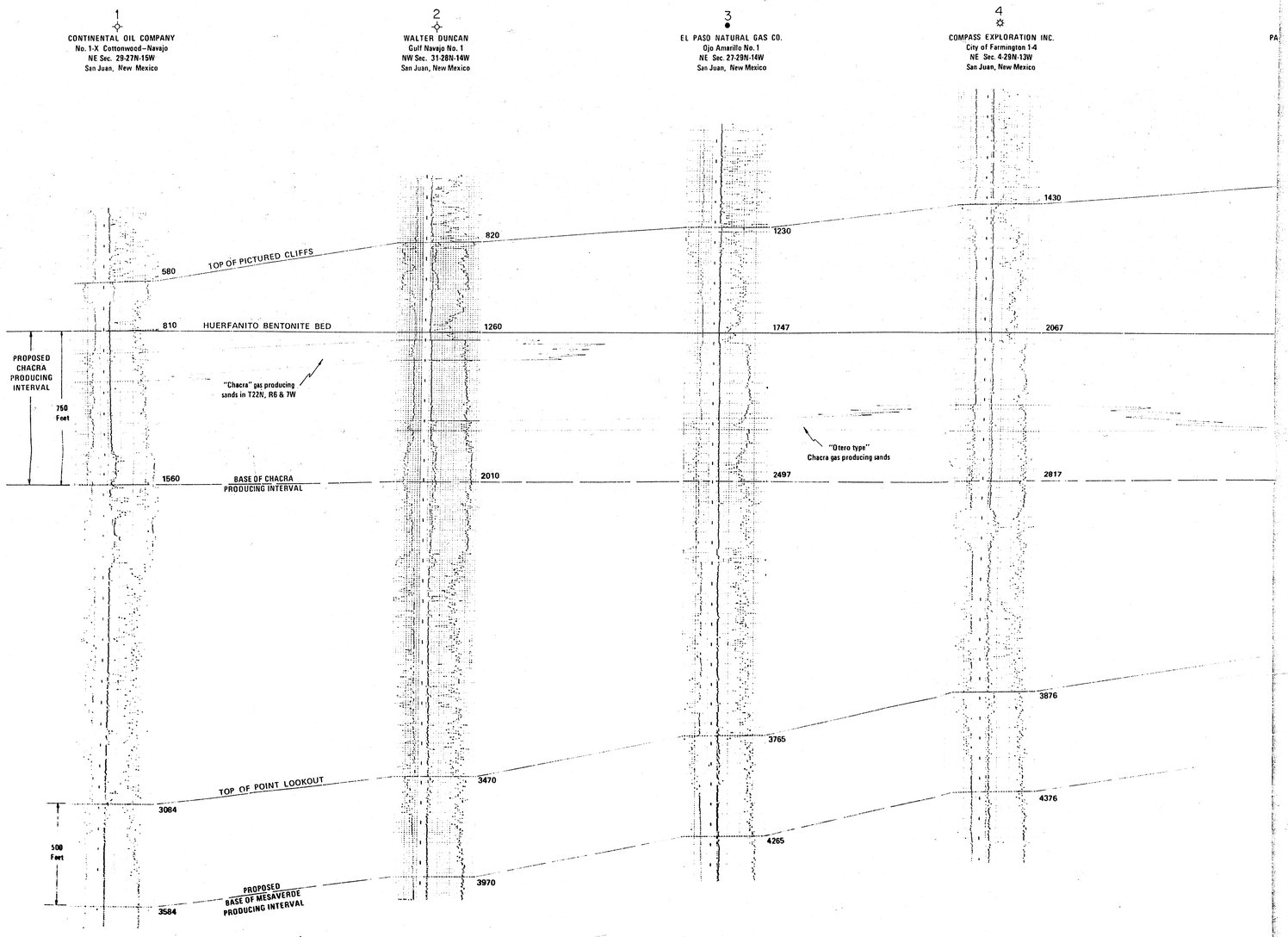
San Juan Basin

Scale 1" = 16,000'

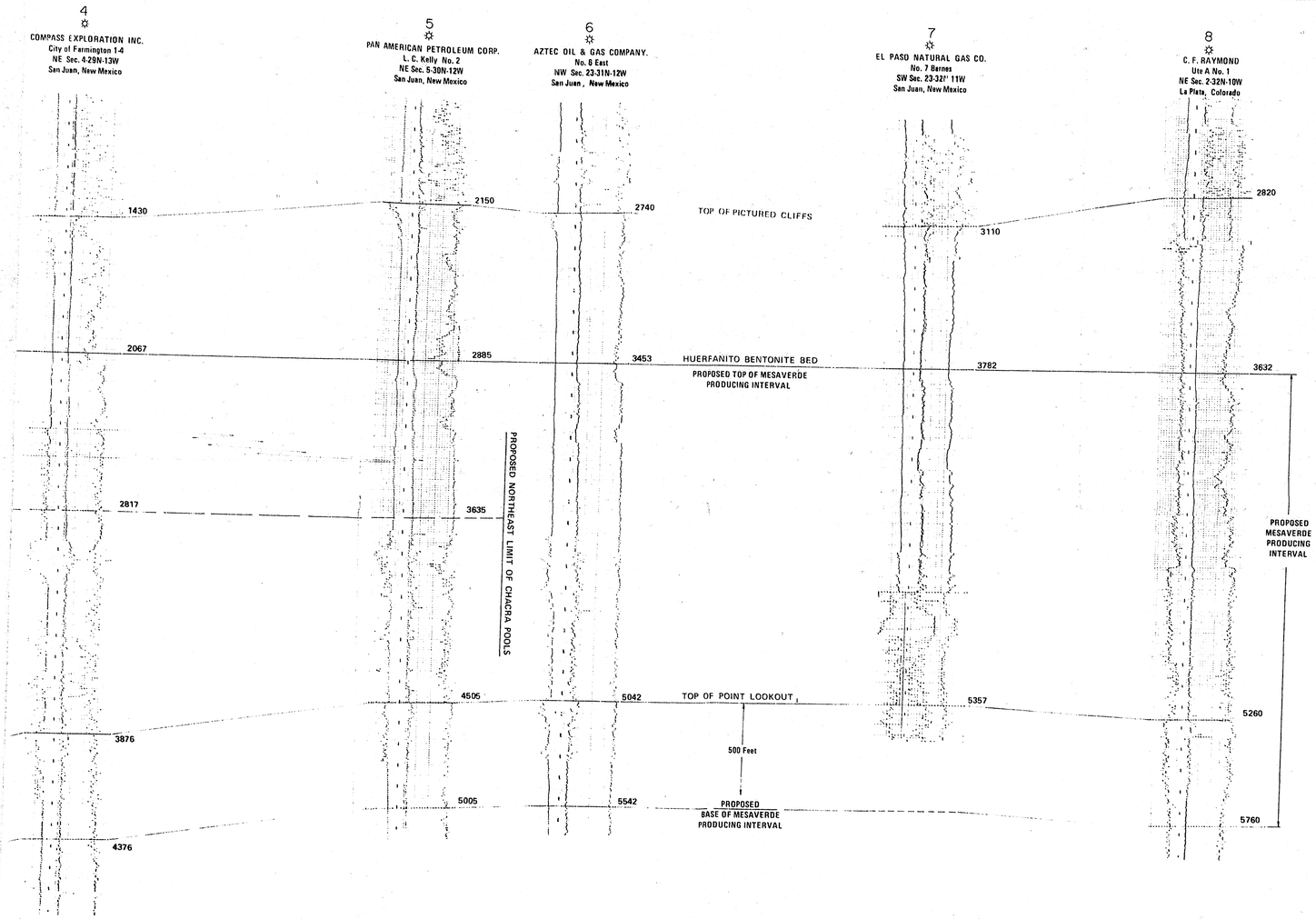
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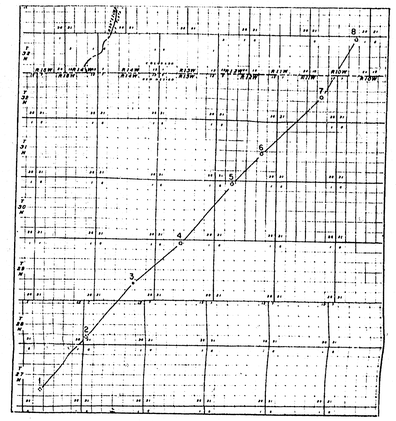
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1
SKELLY
Jicarilla #1-D
SW/4 Sec 8 - T 23N - R 4W
ELEV. 6983' DF
2
AMERADA
Jicarilla Apache G-1
SE/4 Sec 16 - T 24N - R 4W
ELEV. 6868' DF
3
MANNING
Apache 101
NE/4 Sec 2 - T 24N - R 4W
ELEV. 7221' GL
4
SKELLY
GW. Roberts #6
SW/4 Sec 17 - T 25N - R 3W
ELEV. 7195' DF Est.
5
PENROSE
Ruddock #1
NE/4 Sec 3 - T 25N - R 3W
ELEV. 7457' DF
6
AZTEC
Tapacito #1
NE/4 Sec 16 - T 26N - R 2W
ELEV. 7316' DF
7
SUNRAY
#1-A Jicarilla Tribal
NW/4 Sec 27 - T 23N - R 2W
ELEV. 7324 DF
PICTURED CLIFFS PRODUCING INTERVAL
CHACRA PRODUCING INTERVAL
MESAVERDE PRODUCING INTERVAL
Huerfanito Bentonite Marker
MESAVERDE PRODUCING INTERVAL
TOP POINT LOOKOUT
4210
4510
4610
4810
5010
5110
5310
5410
5610
5810
5910
6110
6210
6410
6610
6710
6910
7010
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12110
12310



U.S.G.S. MICROGRAPHICS
BEST AVAILABLE COPY





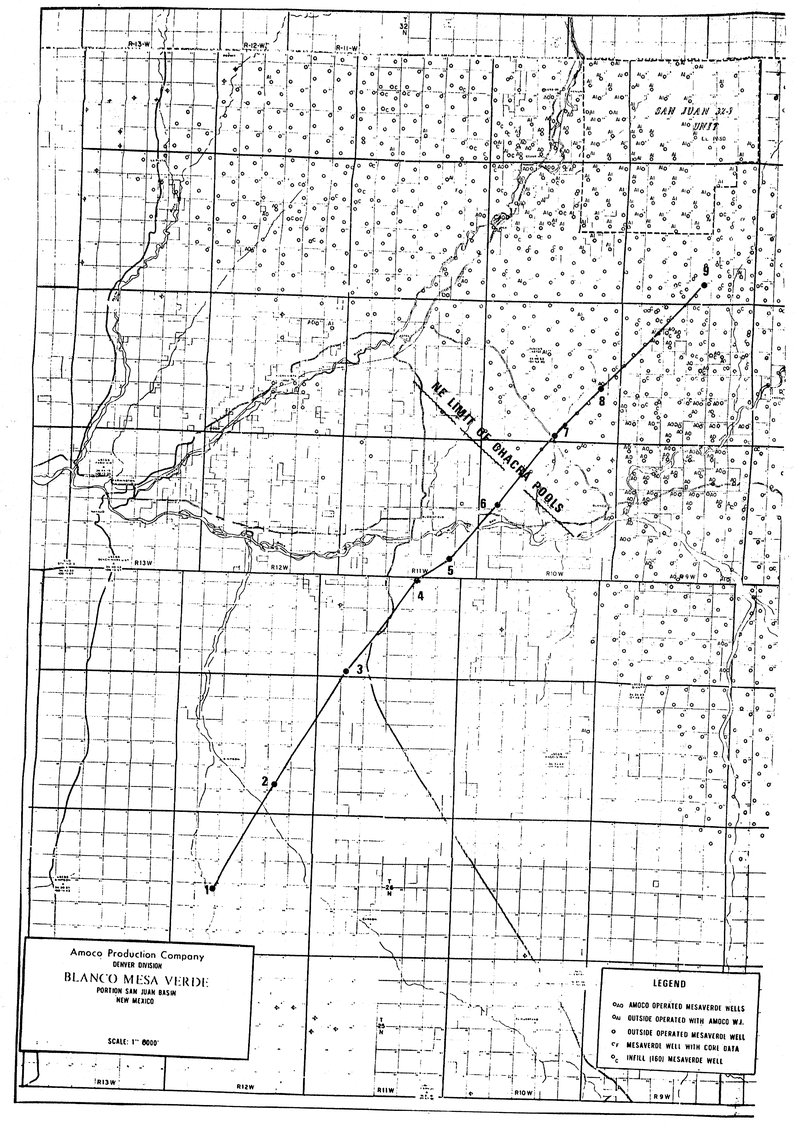
INDEX MAP

OIL CONSERVATION DIVISION
Exhibit Number 3
Case No. [illegible]
Submitted by [illegible]
Hearing Date [illegible]

NORTHWEST EXPLORATION COMPANY
Denver, Colorado

MESAVERDE STUDY GROUP
STRATIGRAPHIC CROSS SECTION
From 27N-15W San Juan Co., New Mexico
To 32N-10W La Plata Co., Colorado

BY: R. C. Bowman | DATE 2-17-77



SW

1
EL PASO NAT. GAS
#1 HILL
20–26N–12W

2
SOUTHWEST PROD.
CAMPBELL FED. #3
26–27N–12W

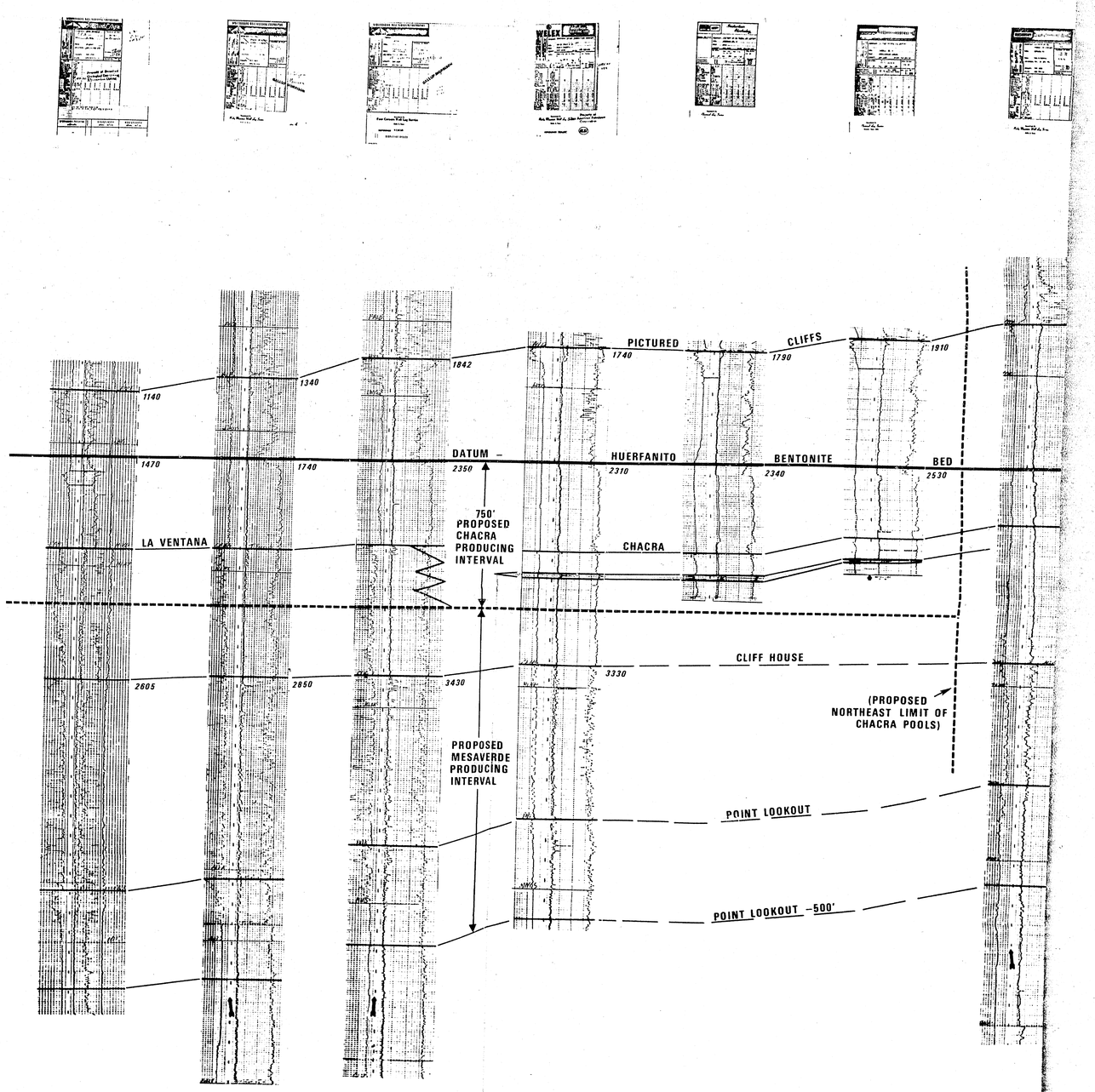
3
WESTERN NAT. GAS
KRAUSE FED. #1
32–28N–11W

4
SOUTHERN UNION
ANGEL PEAK #23
11–28N–11W

5
SOUTHERN UNION
CONGRESS #8
35–29N–11W

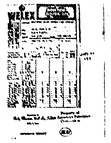
6
EL PASO NAT. GAS
HUBBELL #9
18–29N–10W

7
SOUTHERN
SANCHEZ #
34–30N–10W



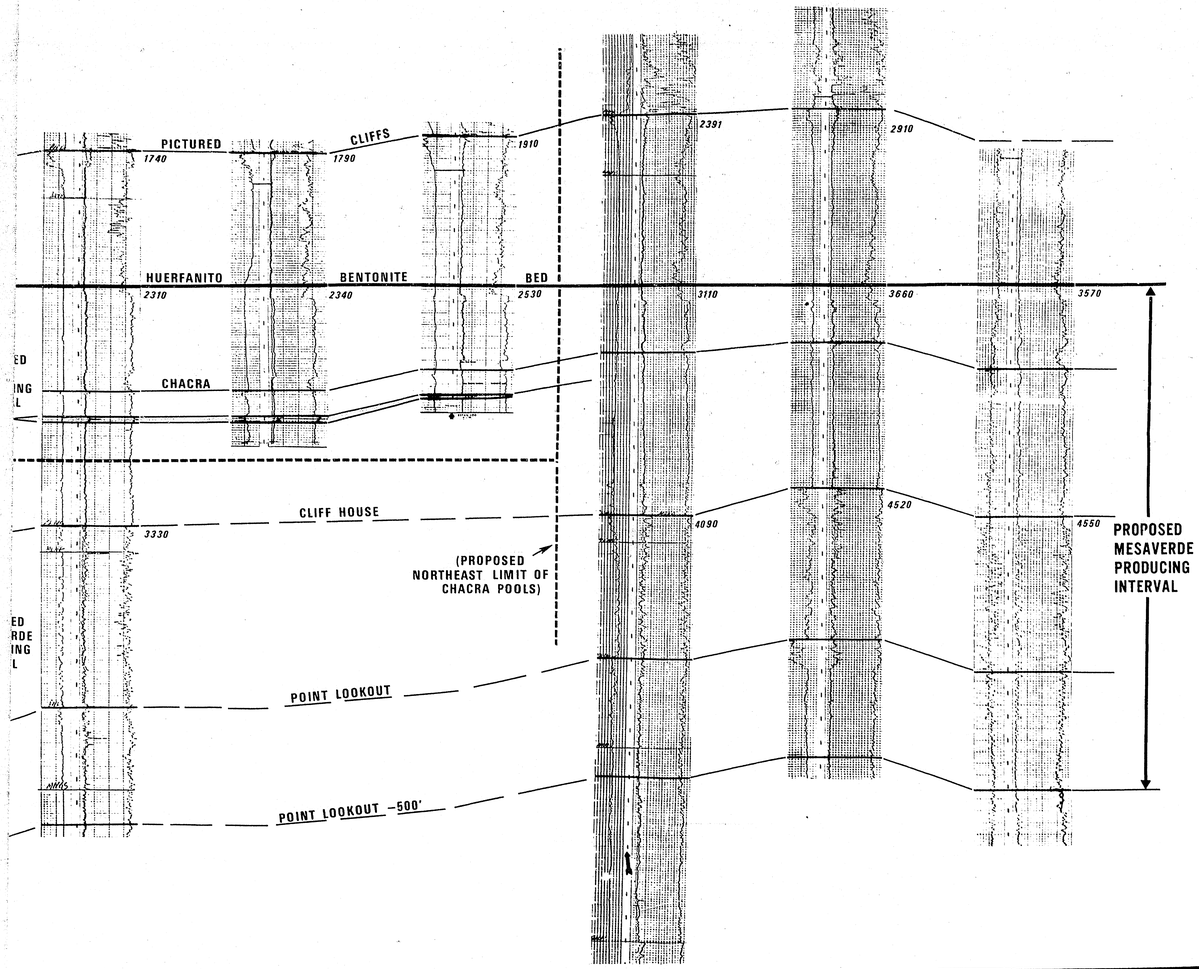
NE

4	5	6	7	8	9
SOUTHERN UNION	SOUTHERN UNION	EL PASO NAT. GAS	SOUTHERN UNION	PAN AM. PET. CORP.	TENNECO OIL CO.
ANGEL PEAK #23	CONGRESS #8	HUBBELL #9	SANCHEZ #3	W.H. RIDDLE #3	PRITCHARD #5
11–28N–11W	35–29N–11W	18–29N–10W	34–30N–10W	24–30N–10W	34–31N–9W







BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 5913 Exhibit No. 4
Submitted by C.C. Downie
Hearing Date 3-23-77

Amoco Production Company
Denver Division
CENTRAL DISTRICT

CHACRA SAND PINCHOUT
West Blanco Mesaverde Area
San Juan Co., New Mexico

By: LARRY BAGSHAW
Date: MARCH 1977
Scale:
Exct. No.

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

STRATIGRAPHIC CROSS SECTION



SOUTHWEST

HUMBLE OIL AND REFINING CO.
Tenner Unit #2
Sec. 23, T.23N., R.12W.
Elevation 6034' K.B.

MAGNOLIA PETROLEUM CO.
Beamon Federal #1
Sec. 29, T.24N., R.11W.
Elevation 6251' K.B.

DAVIS OIL CO.
Fannie Government #1
Sec. 3, T.24N., R.11W.
Elevation 6590' K.B.

SUN OIL CO.
Ith-Hol-E-Wood #1
Sec. 19, T.25N., R.10W.
Elevation 6583' K.B.

EL PASO NATURAL GAS CO.
Huerfano #120
Sec. 25, T.26N., R.10W.
Elevation 6629' K.B.

TURNER AND WEBB
Huerfanito #60-4
Sec. 4, T.26N., R.9W.
Elevation 6406' K.B.

EL PASO NATURAL GAS CO.
Schwerdtfeger #13-A
Sec. 8, T.27N., R.8W.
Elevation 6745' K.B.

EL PASO NATURAL GAS CO.
San Juan 28-7 #30
Sec. 16, T. 28N., R. 7 W.
Elevation 6871' K.B.

EL PASO NATURAL GAS CO.
San Juan 29-7 #65
Sec. 22, T.29N., R.7W.
Elevation 6781' K.B.

EL PASO NATURAL GAS CO.
Barron Kidd #7
Sec. T.30N., R. 6 W.
Elevation 6457' K.B.

EL PASO NATURAL GAS CO.
Rosu Unit #24
Sec. 32, T.31N., R.5W.
Elevation 6528' K.B.

STANOLIND OIL AND GAS CO.
San Juan 32-5 Unit #2
Sec. 35, T.32N., R.5W.
Elevation 6336' K.B.

PHILLIPS PETROLEUM CO.
Mesa Unit 32-4 # 2-16
Sec. 16, T. 32 N., R 4 W.
Elevation 6808' K.B.

STANOLIND OIL AND GAS CO.
Southern Ute # 1
Sec. 22, T. 32 N., R 3 W.
Elevation 7188' K.B.

NORTHEAST

BASE OF FRUITLAND FORMATION

PICTURED CLIFFS SANDSTONE

HUERFANITO BENTONITE BED

CHACRA PRODUCING INTERVAL

"CHACRA" SANDSTONE

LA VENTANA SANDSTONE TONGUE

CLIFF HOUSE SS

MENEFEE FORMATION

CLIFF HOUSE SS

TOP OF POINT LOOKOUT SANDSTONE

MESAVERDE PRODUCING INTERVAL

LEWIS SHALE

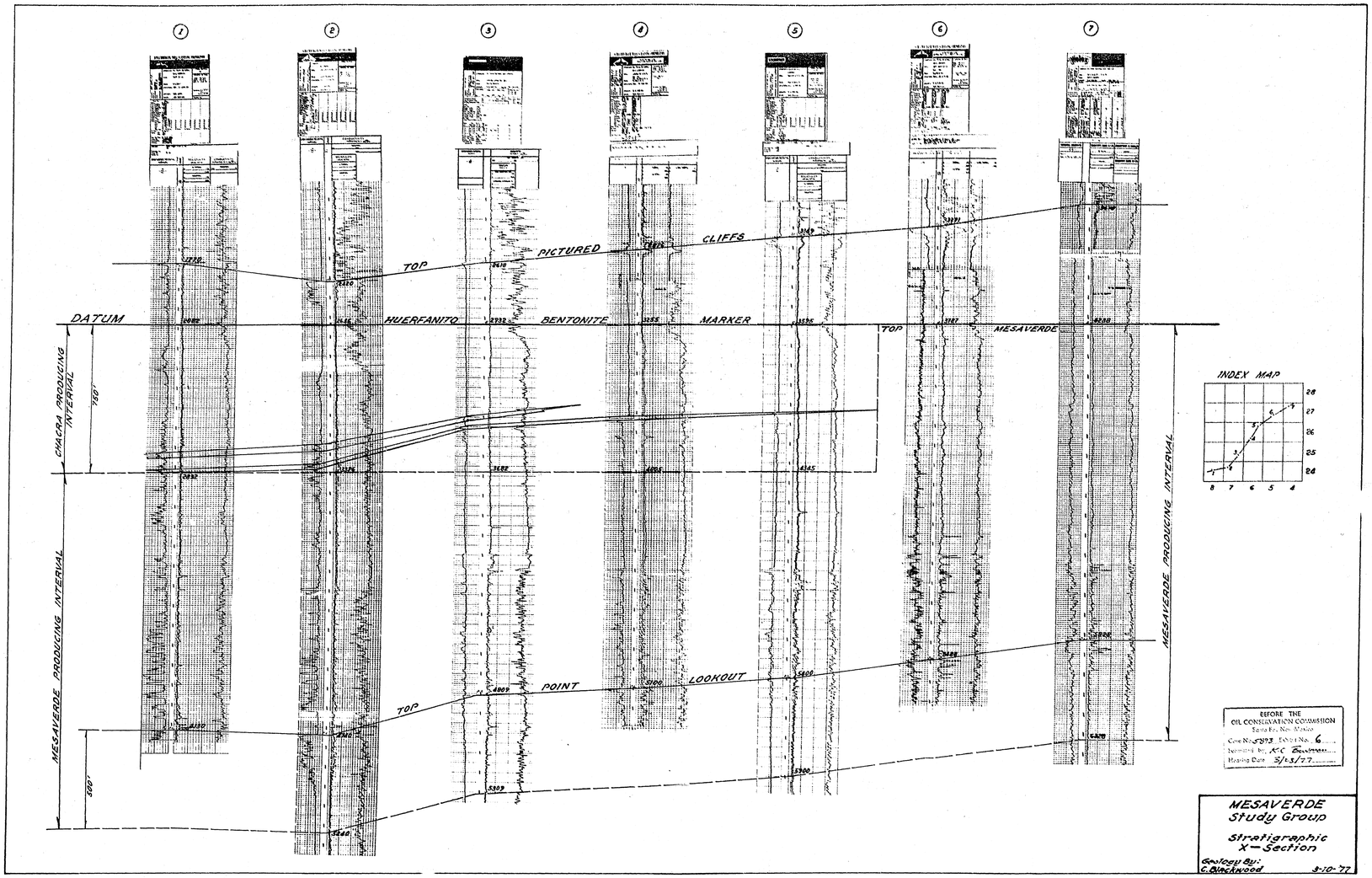
This Line is 500 Feet Below the Top of the Point Lookout Sandstone

Datum is Huerfanito Bentonite Bed — Vertical exaggeration about X48

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 5893 Exhibit No. 5
Submitted by: K. C. Pearson
Hearing Date 3-23-77

J.F. Fossett, USGS, 1977

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



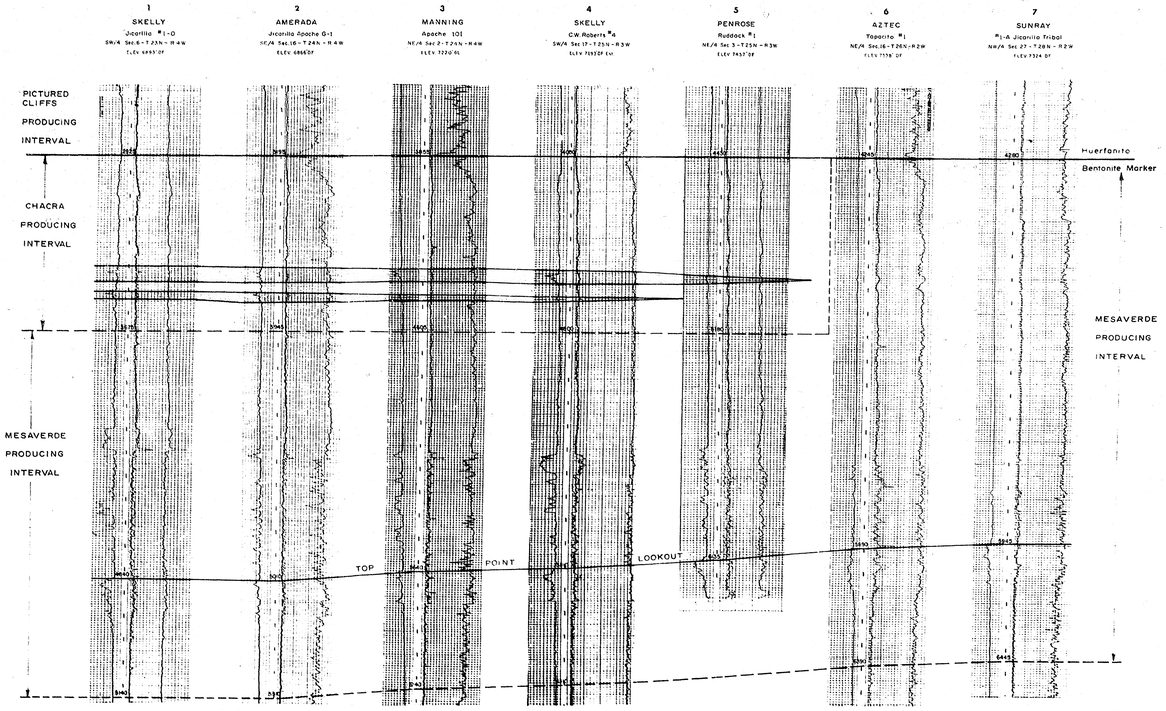
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 5893 Exhibit No. 6
Submitted by: MCC Enterprises
Hearing Date 5/25/77

MESAVERDE
Study Group

Stratigraphic
X-Section

Geology By:
C. Blackwood 3-10-77

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


1
SKELLY
Jicarilla #1-D
SW/4 Sec.6-T.25N.-R.4W
ELEV. 6993' DF
2
AMERADA
Jicarilla Apache G-1
SE/4 Sec.16-T.24N.-R.4W
ELEV. 6866' DF
3
MANNING
Apache 101
NE/4 Sec.2-T.24N.-R.4W
ELEV. 7220' KL
4
SKELLY
C.W. Roberts #6
SW/4 Sec.17-T.25N.-R.3W
ELEV. 7052' DF Est
5
PENROSE
Ruddock #1
NE/4 Sec.3-T.25N.-R.3W
ELEV. 7457' DF
6
AZTEC
Taperito #1
NE/4 Sec.16-T.26N.-R.2W
ELEV. 7176' DF
7
SUNRAY
#1-A Jicarilla Tribal
NW/4 Sec.27-T.28N.-R.2W
ELEV. 7324' DF
PICTURED CLIFFS PRODUCING INTERVAL
CHACRA PRODUCING INTERVAL
MESAVERDE PRODUCING INTERVAL
Huerfanito Bentonite Marker
MESAVERDE PRODUCING INTERVAL
TOP POINT LOOKOUT
4280
4440
4600
4760
4920
5080
5240
5400
5560
5720
5880
6040
6200
6360
6520
6680
6840
7000
7160
7320
7480
7640
7800
7960
8120
8280
8440
8600
8760
8920
9080
9240
9400
9560
9720
9880
10040
10200
10360
10520

SW — (10 MILES) — Kd — (11 MILES) — Toa — (2.65 MILES) — (3.22 MILES) — Kn — NE

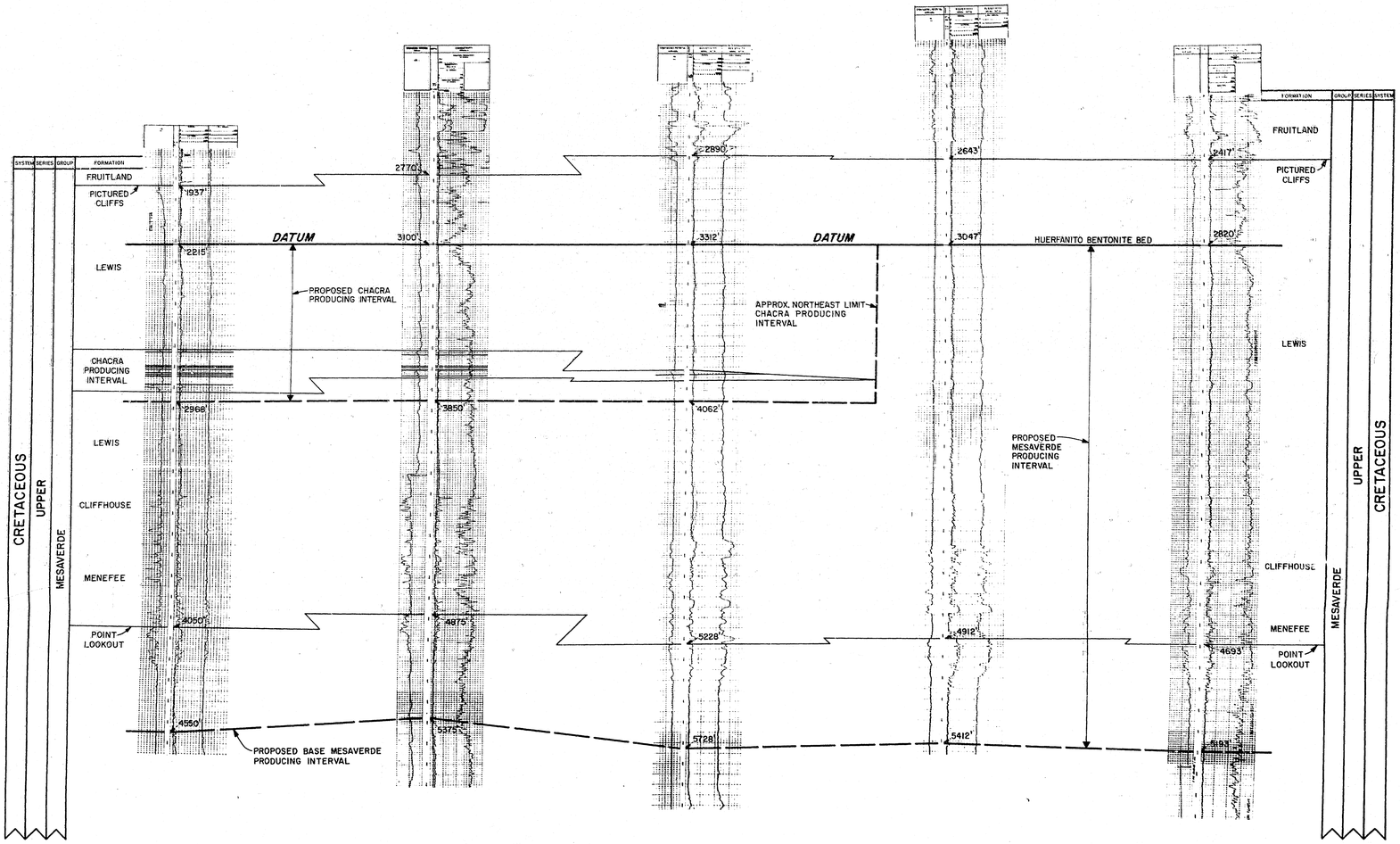
SKELLY OIL COMPANY – JICARILLA NO.1
SEC. 8-T22N-R4W, SANDOVAL CO., NEW MEXICO
ELEV. 6848' DF; TD 6509'; COMP. 7-16-55

NORTH AMERICAN EXPLORATION CO.
TESORO PETROLEUM CORP. – CROSSWISE NO.1
SEC. 31-T23N-R2W, SANDOVAL CO., NEW MEXICO
ELEV. 7252' KB; TD 7425'; COMP. 4-3-72

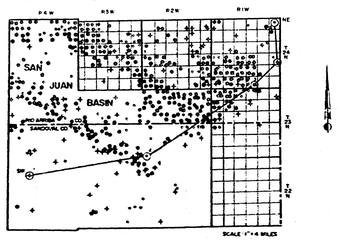
MAGNOLIA PETROLEUM CO. – SCHMITZ NO.1
SEC. 34-T24N-R1W, RIO ARRIBA CO., NEW MEXICO
ELEV. 7302' GL; TD 8930'; COMP. 9-7-54

READING & BATES – DUFF NO.1
SEC. 24-T24N-R1W, RIO ARRIBA CO., NEW MEXICO
ELEV. 7186' KB; TD 8453'; COMP. 5-23-54

BENSON-MONTIN-GREER DRILLING CORP.-
CANADA OJITOS NO.17 (G-1)
SEC. 1-T24N-R1W, RIO ARRIBA CO., NEW MEXICO
ELEV. 7154' KB; TD 6296'; COMP. 1-16-71



INDEX MAP



LEGEND

CHACRA SANDSTONE

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 5975 Exhibit No. 8
Submitted by K.C. Beaman
Hearing Date 8-23-77

MESA PETROLEUM CO.
CENTRAL DIVISION

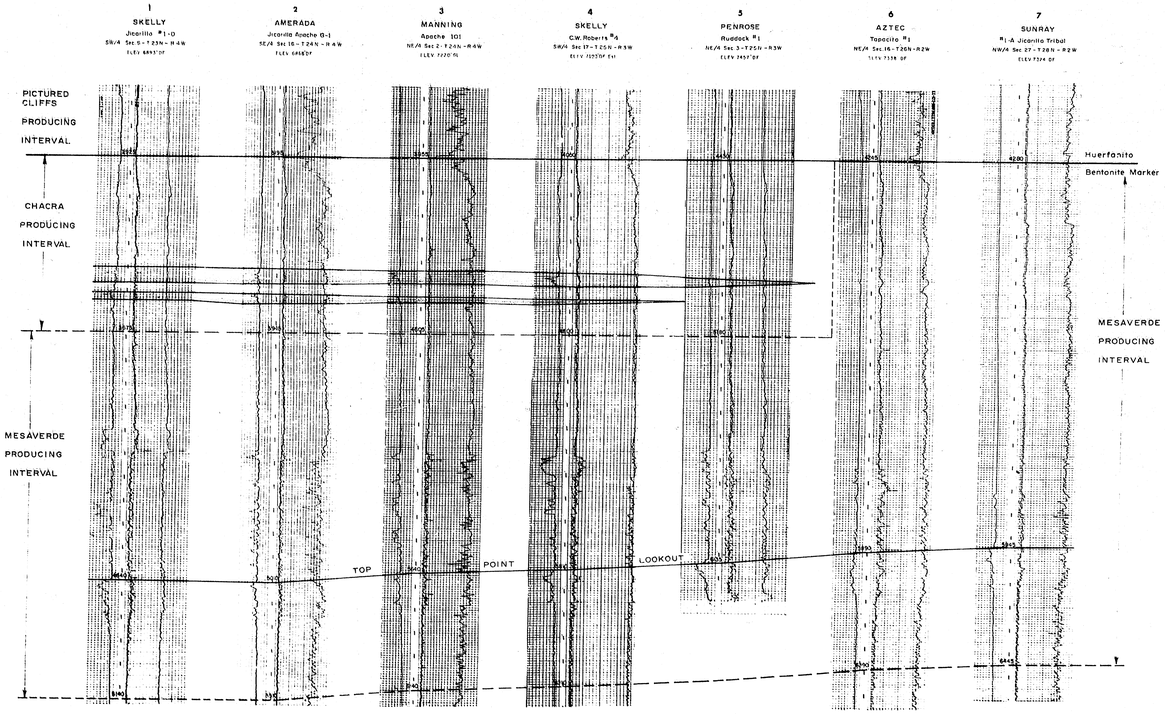
RIO ARRIBA, SANDOVAL CO.
NEW MEXICO

SW-NE STRAT. CROSS-SECTION

SCALE: VERT. 1" = 200'
HORIZ. Not to scale

DPH MARCH 1977

U.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6291 Exhibit No. _____
Submitted by K.C. Bowman
Hearing Date 3/22/77

EL PASO NATURAL GAS COMPANY
Engineering Department
Southwestern Division
Northwest Region

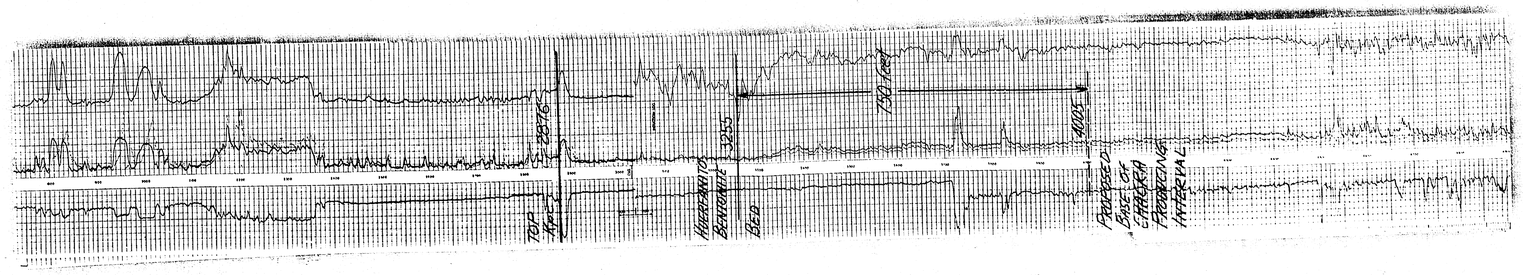
STRATIGRAPHIC CROSS SECTION
FOR
MESAVERDE STUDY GROUP

JLW-RP Mar. 1977

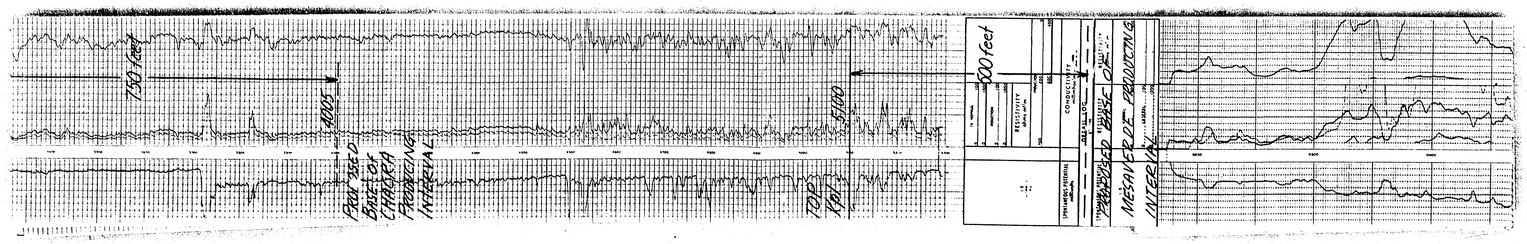
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NOT AVAILABLE FOR COPY



V.S.W.C.F. MICROGRAPHICS
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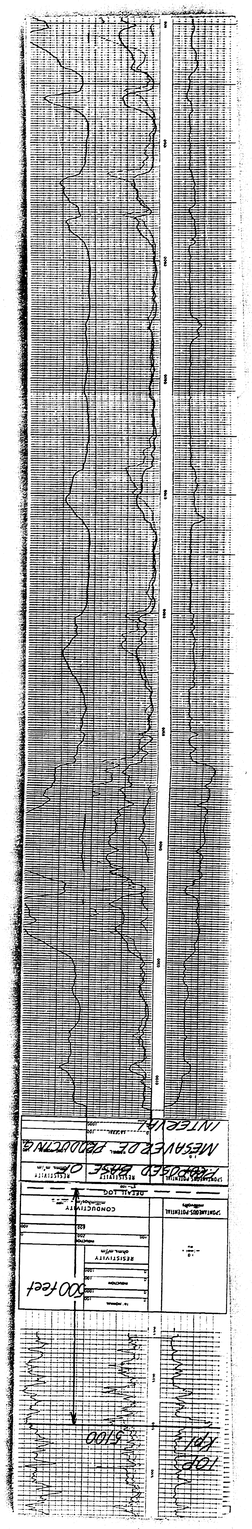


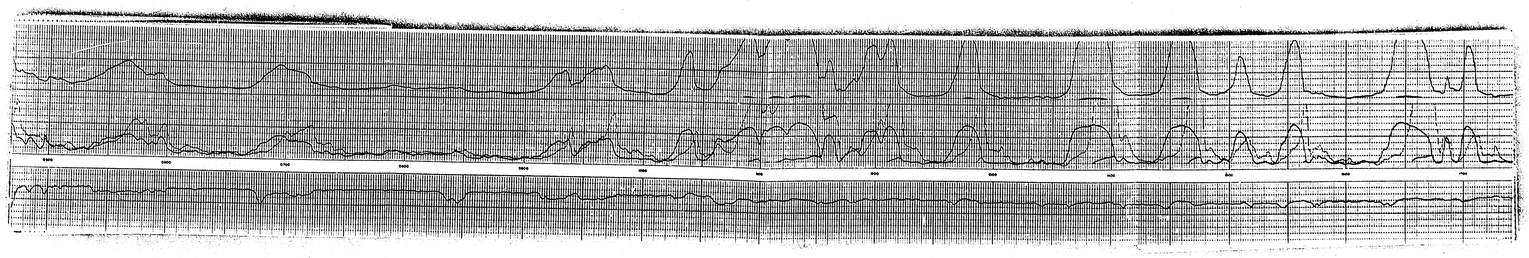
V.A.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



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

U.S.B.G.F. RESOURCES
NOT FOR PUBLIC USE





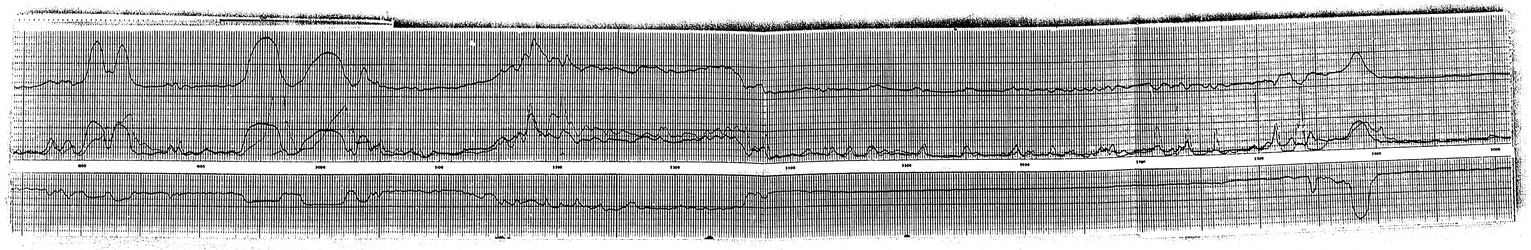
V.R.M.C.F. MICROGRAPHICS

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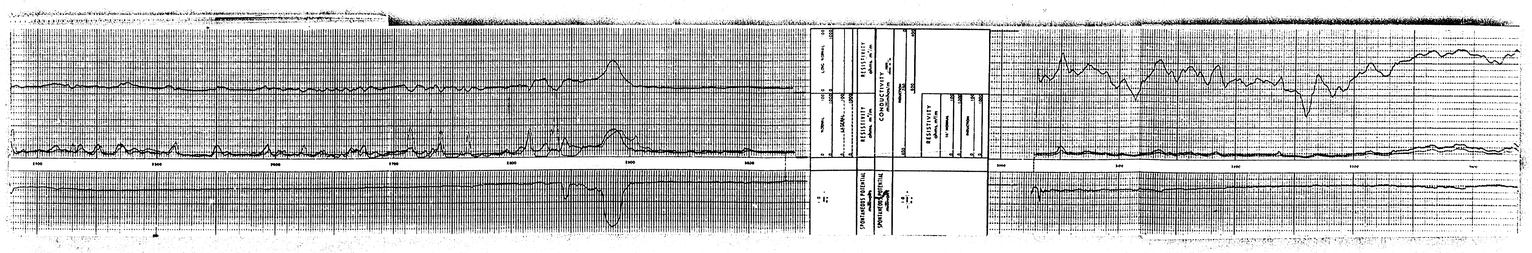
V.T.R.C.F. MICROGRAPHICS

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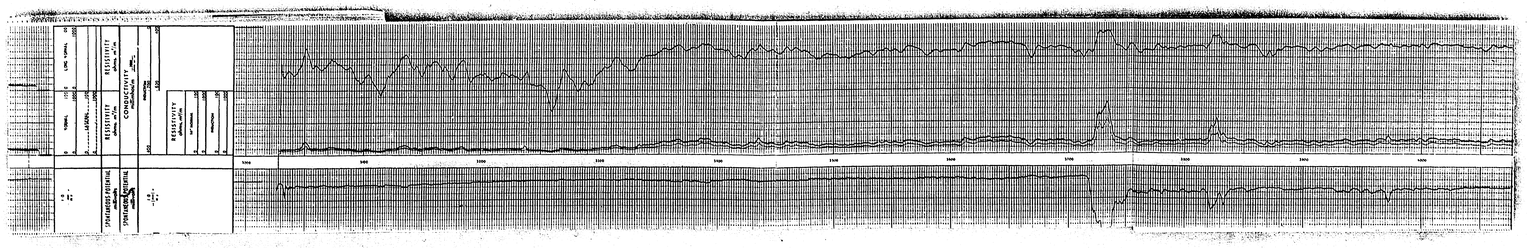
C.E.N.G.P. MICROGRAPHICS

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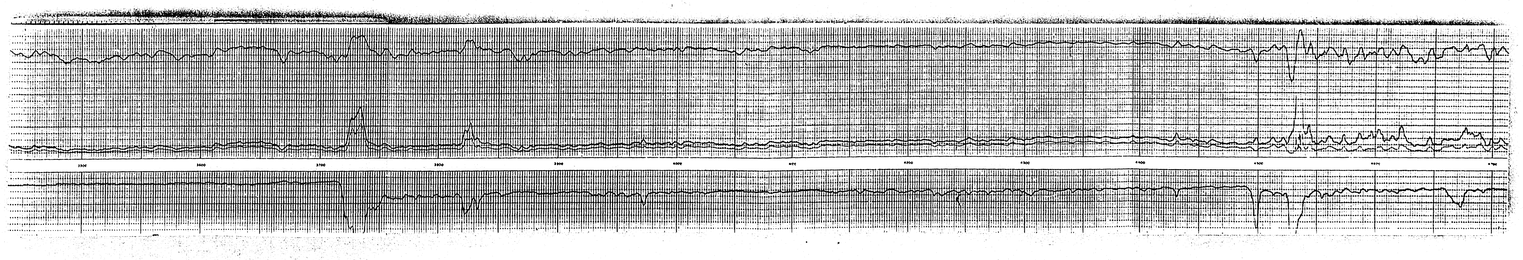
V.V.N.C.F. MICROGRAPHICS

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V.V.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



U.S.N.M.C.F. MICROGRAPHICS

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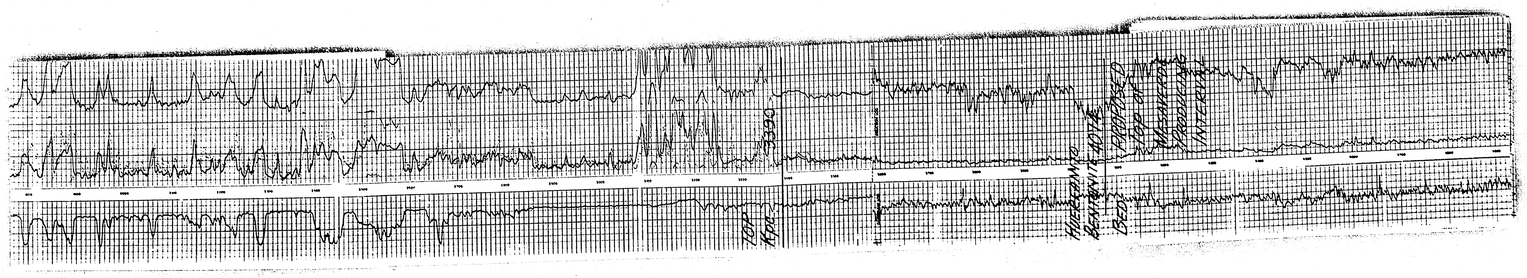


W.H.M.C.F. MICROGRAPHICS

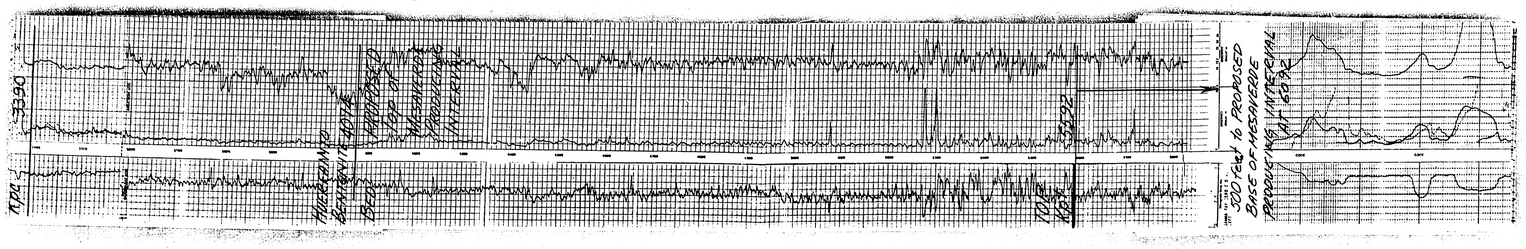
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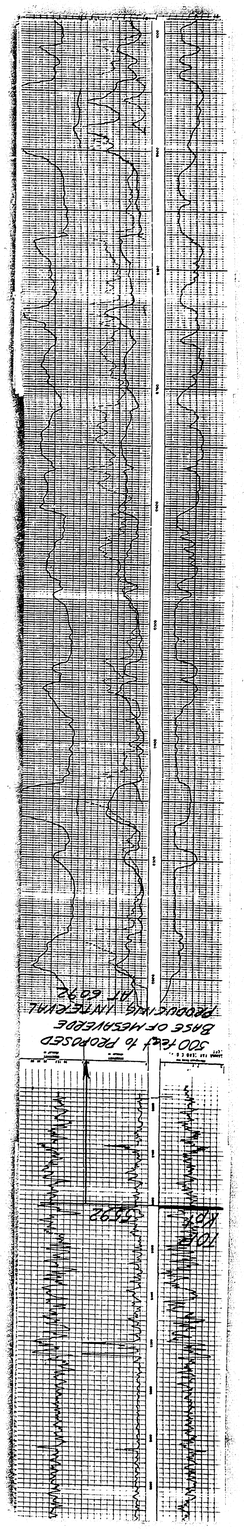


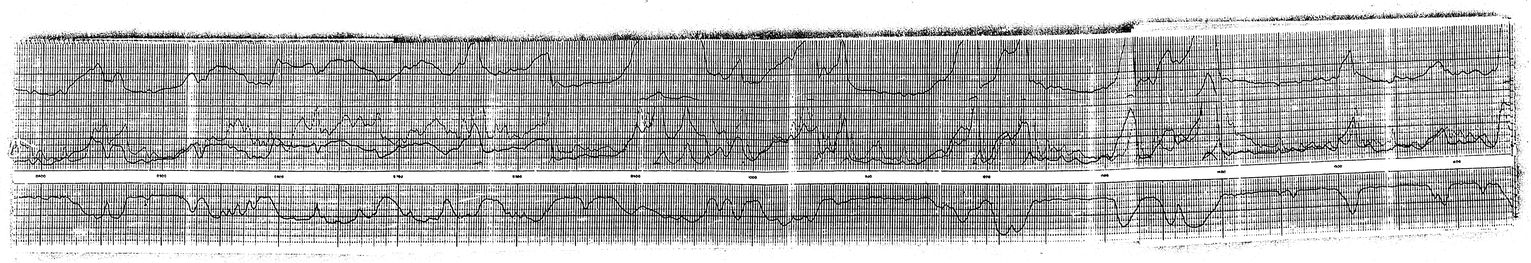
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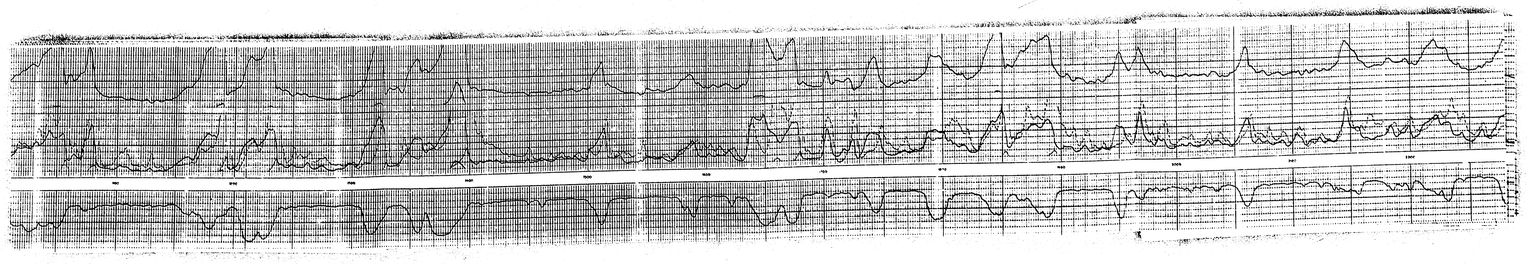
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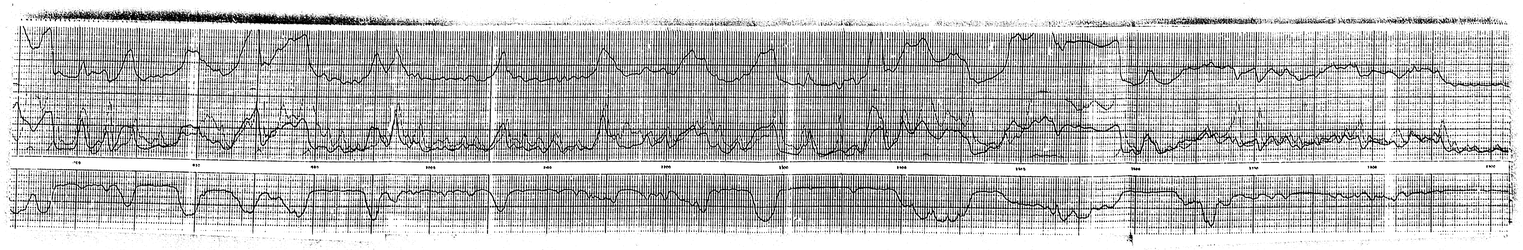
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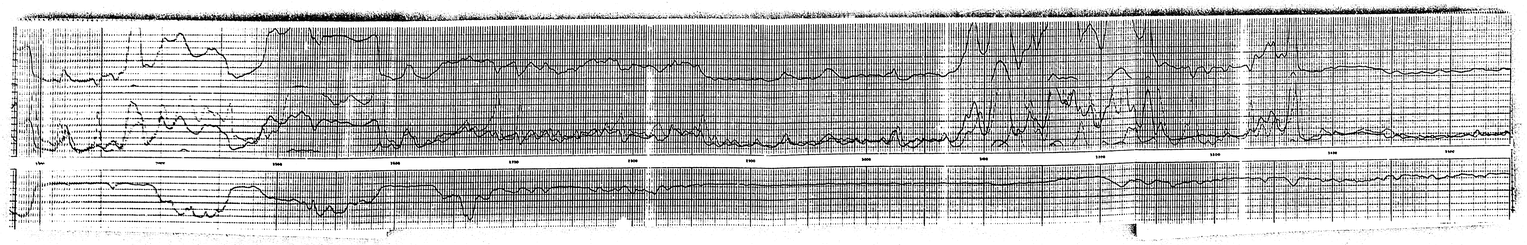


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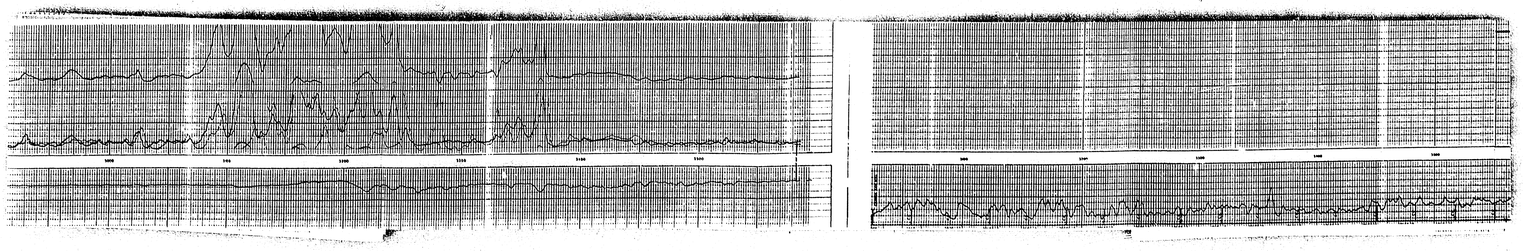


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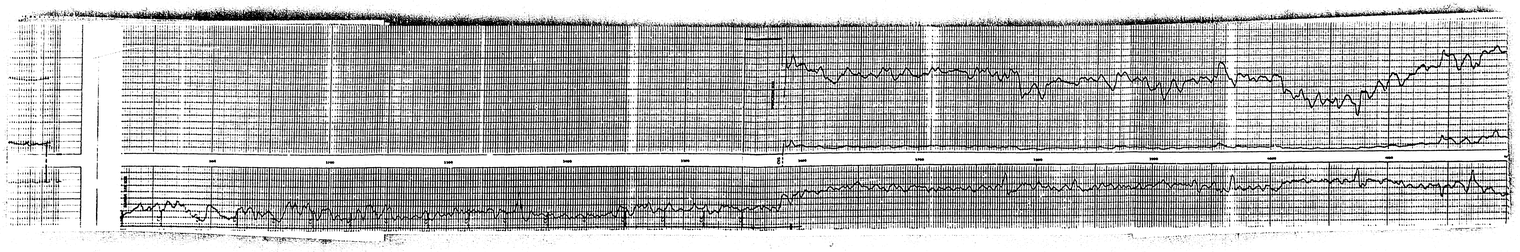
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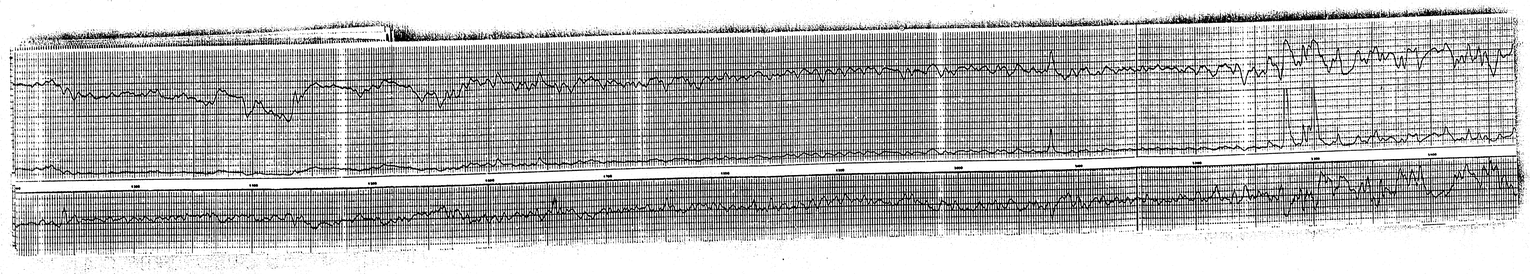
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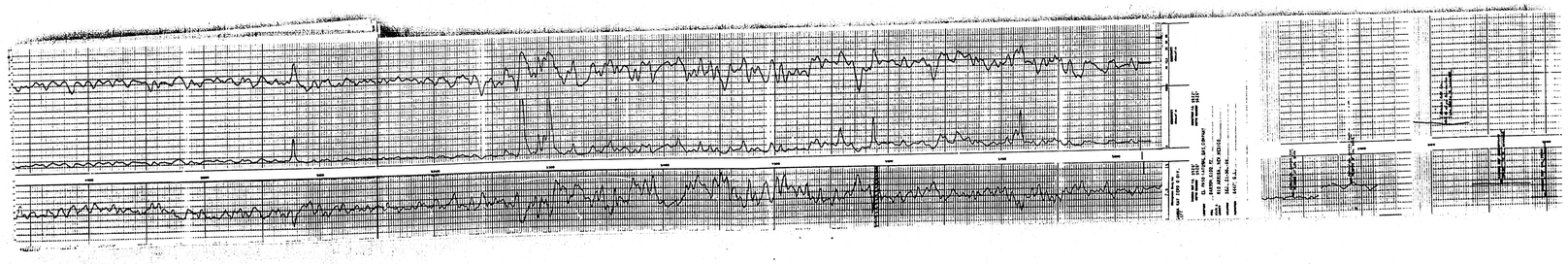
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V.A.M.C.P. MICROGRAPHICS

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