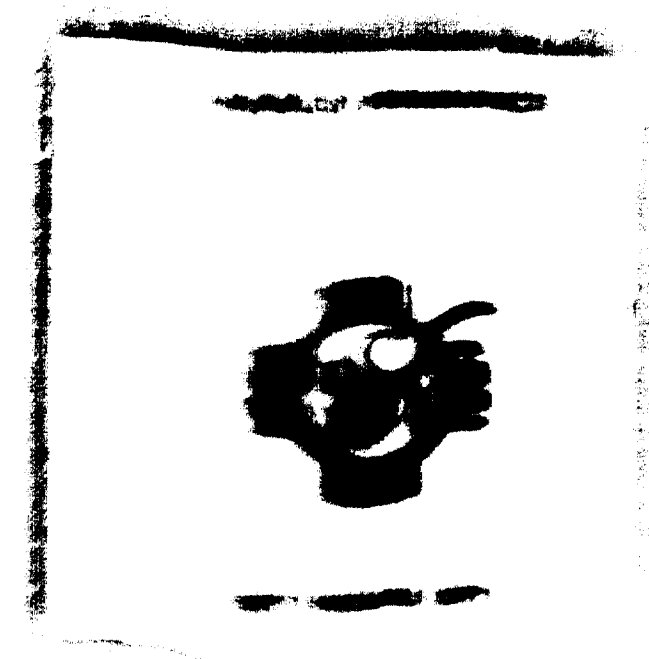


Case No
7317

Large Exhibits



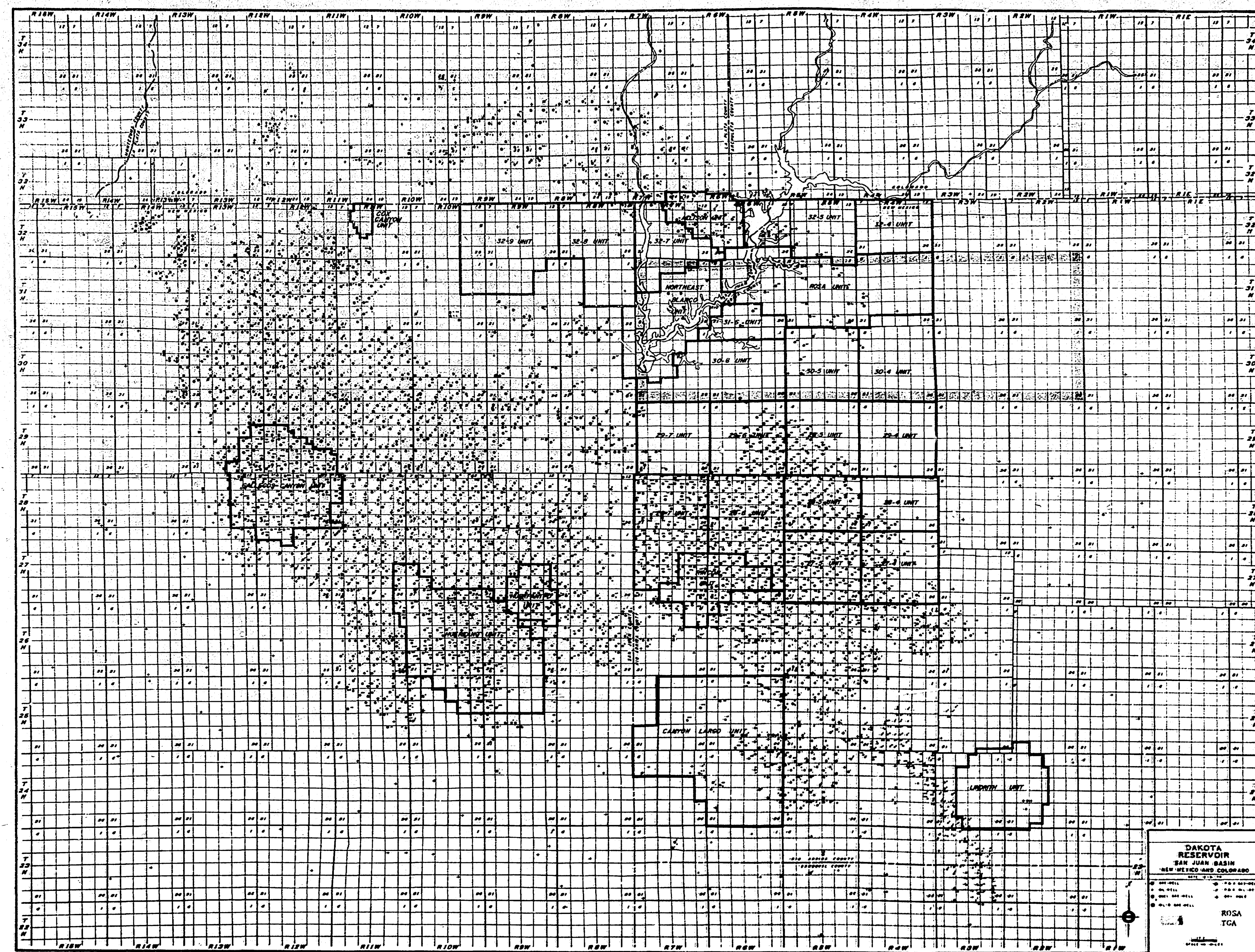
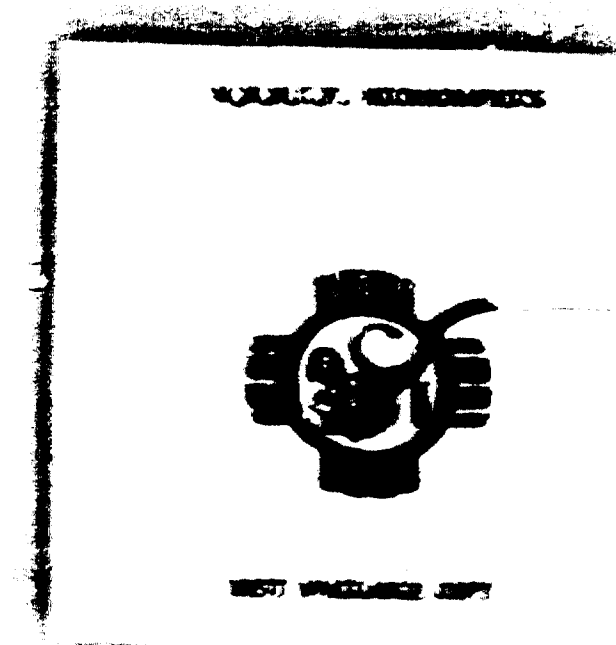
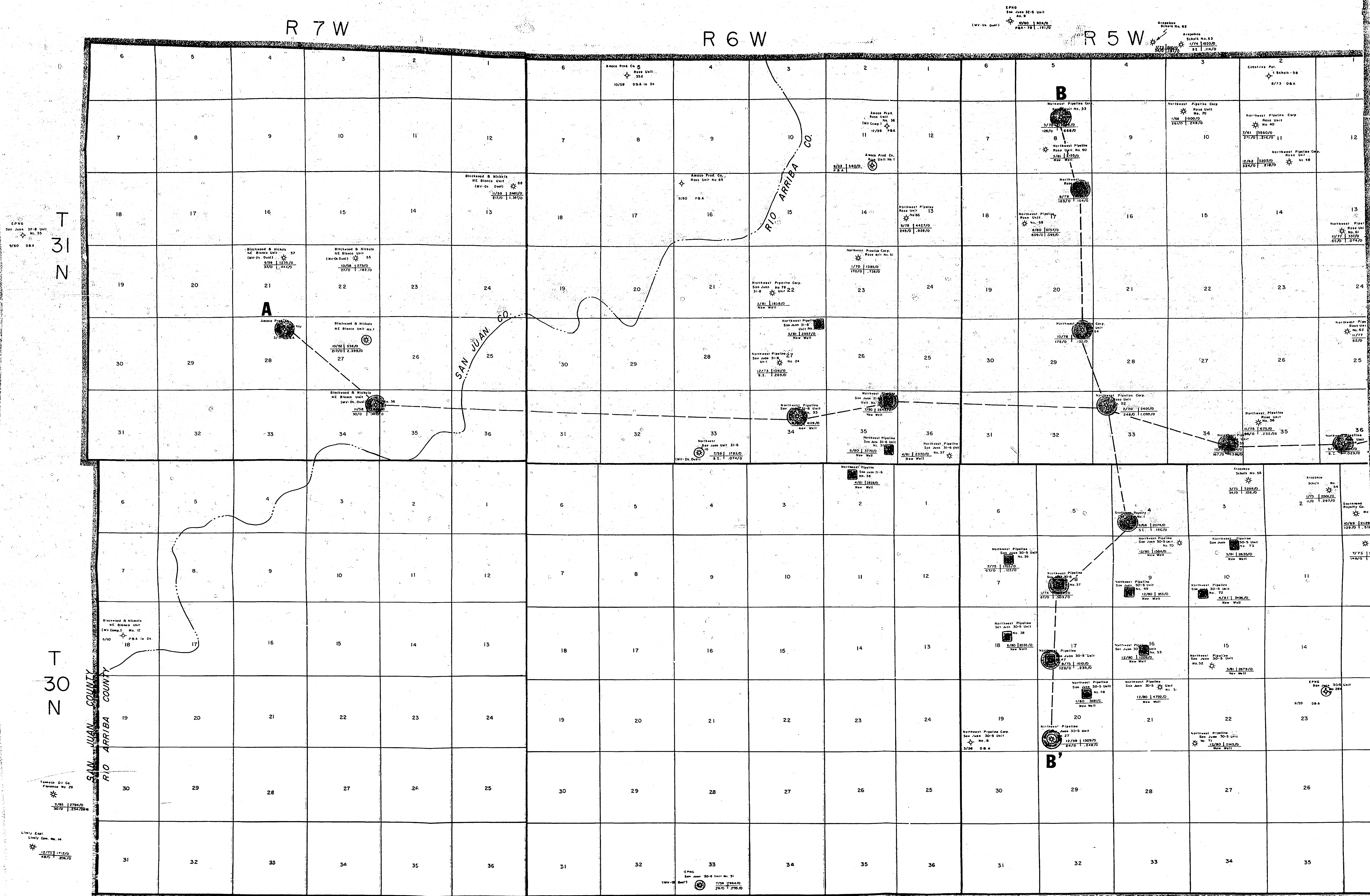
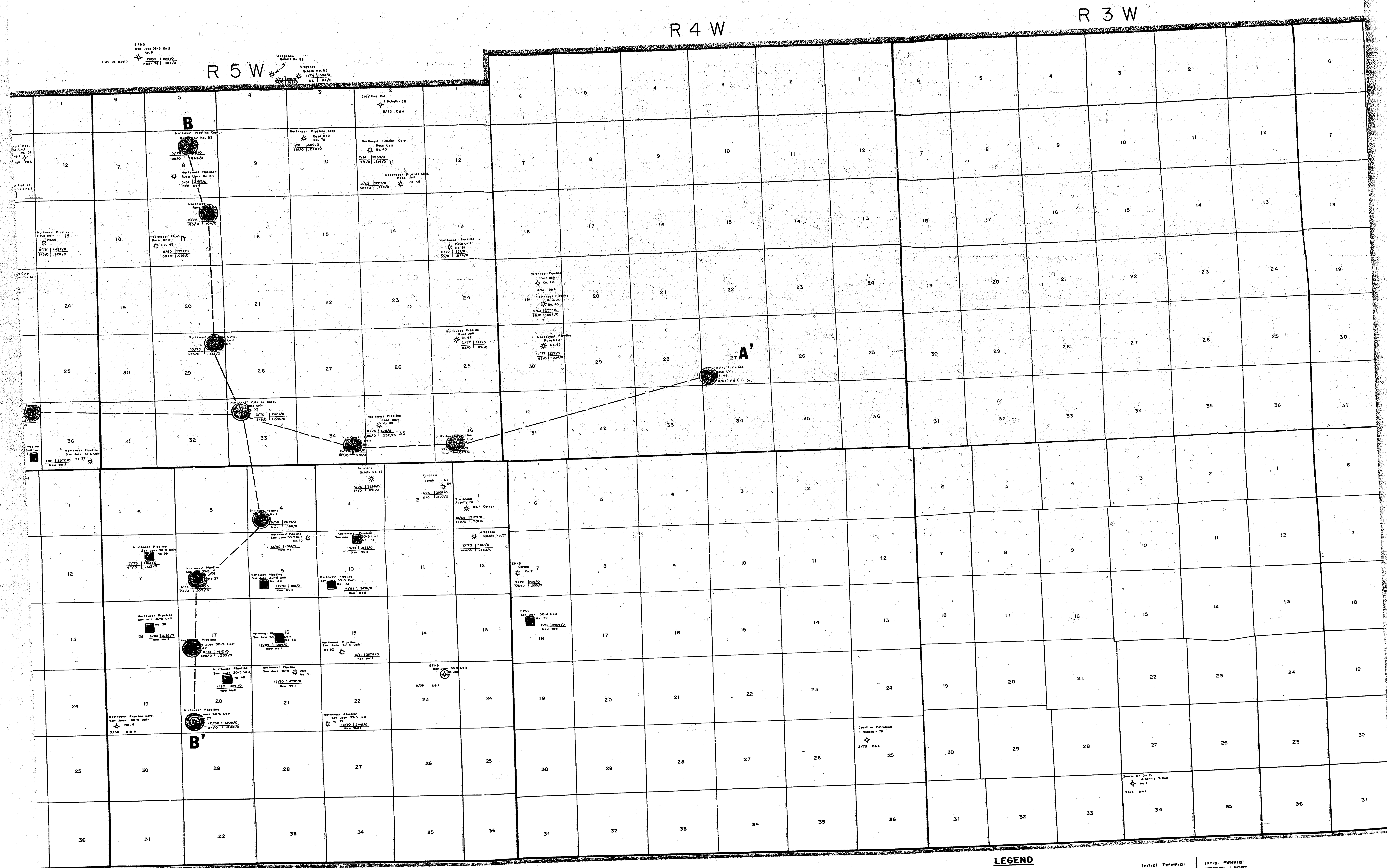


EXHIBIT NO. 1



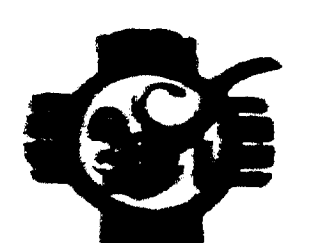


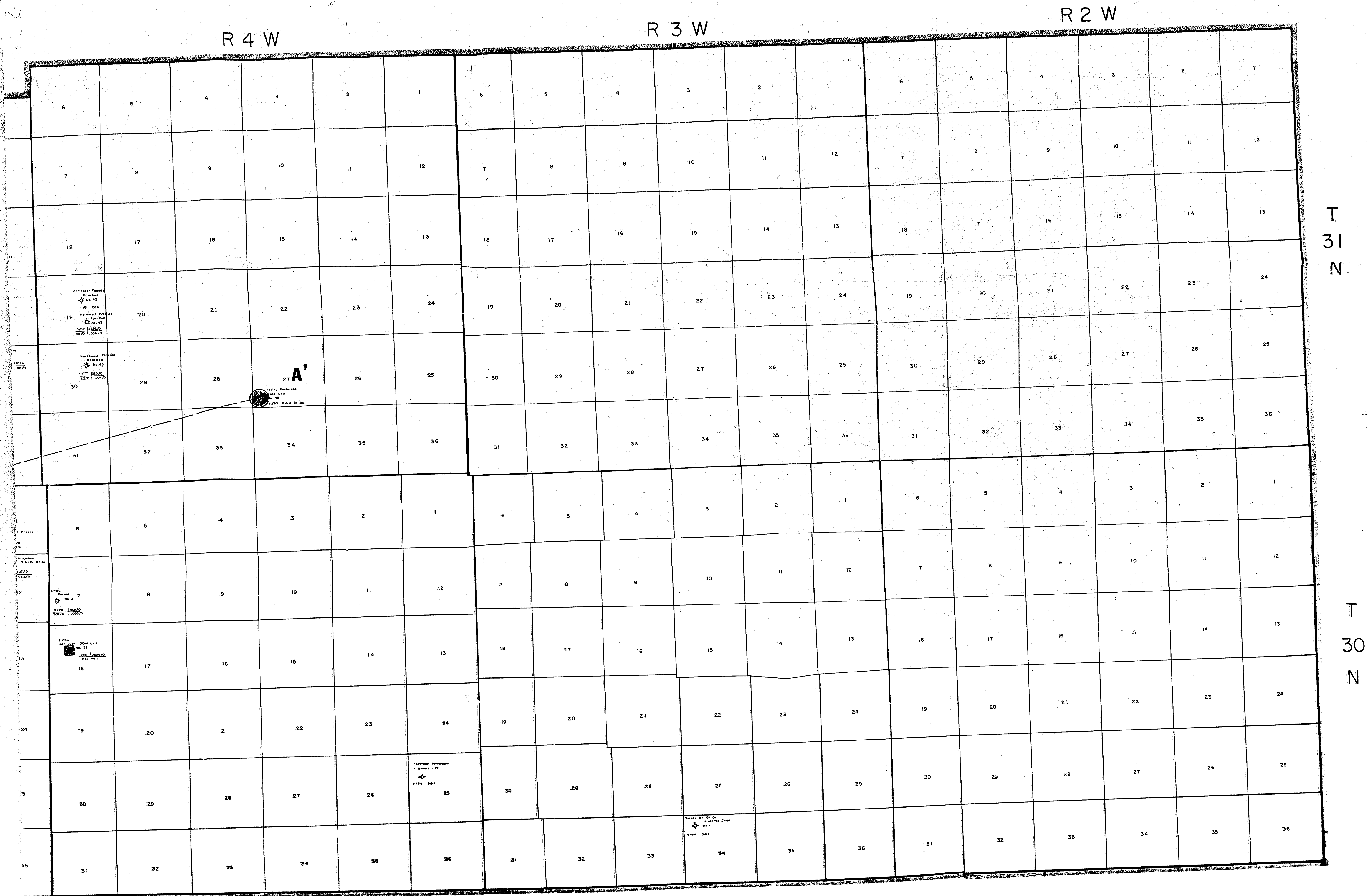


LEGEND

- Boundary Of Proposed Tight Gas Area
- Dakota Completion
- Dakota Dry Hole
- Leads Well
- Unstimulated Natural Production Test
- Cross Section Well

Initial Potential Date Month / Year	Initial Potential MCFGPD / BOPD
Average 1980 Daily Production MCFGPD / BOPD	Cumulative Production To 1/1/81 BCFG / BO





LEGEND

- Boundary of Proposed Tight Gas Area
- Well Completion
- Well Type
- Well Head
- Unconventional Natural Production Test
- Cross Section Well

Initial Potential Date Month / Year	Initial Potential MCFPD / BOPD
Average 1980 Daily Production MCFPD / BOPD	Cumulative Production To 1/1/81 BOPD / BO

FOUR CORNERS GAS PRODUCERS ASSOCIATION

ROSA TIGHT GAS AREA

COMPLETION & PRODUCTION MAP

DAKOTA FORMATION

SAN JUAN BASIN

San Juan & Rio Arriba Counties, New Mexico
July, 1981

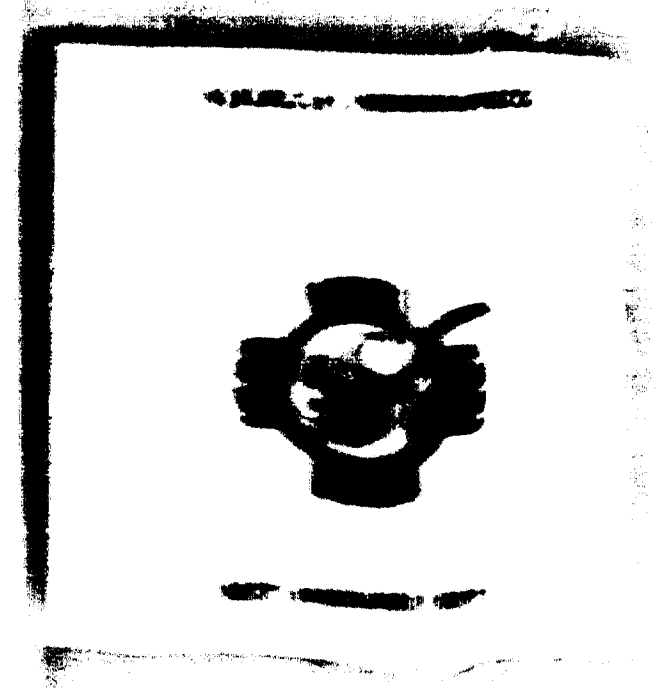
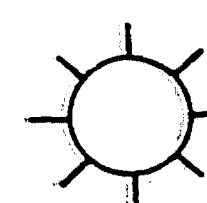
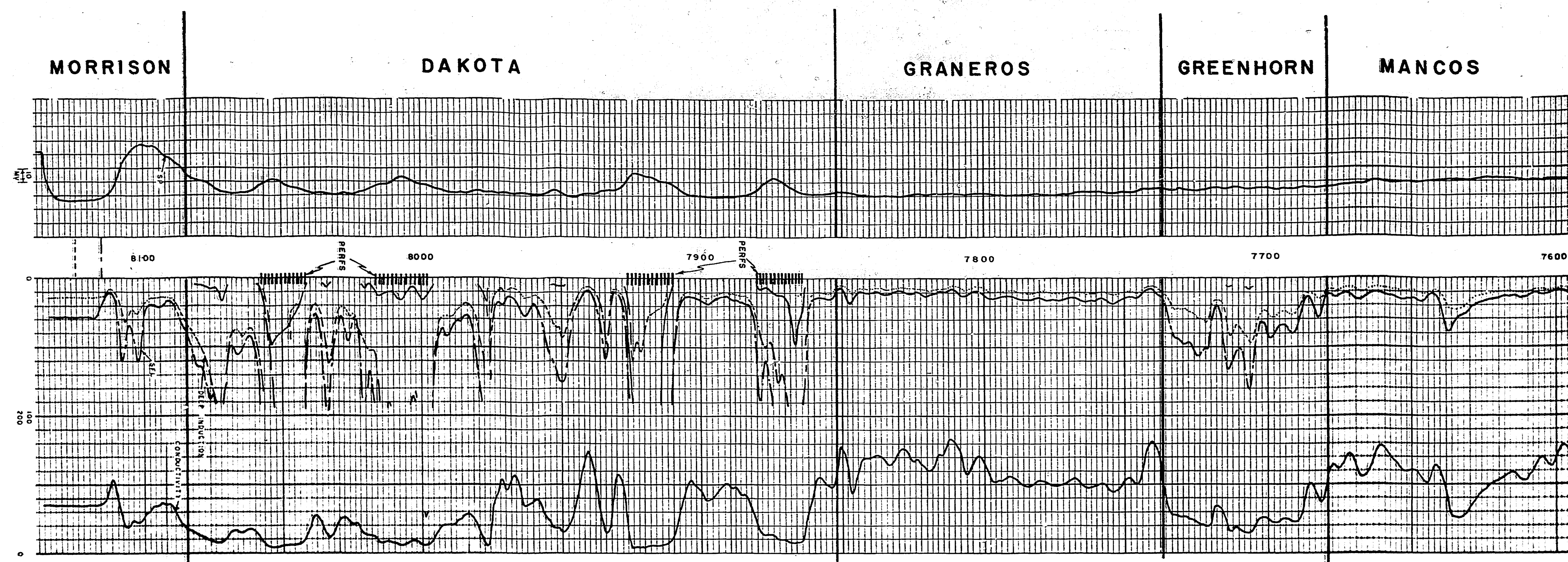


EXHIBIT NO. 1

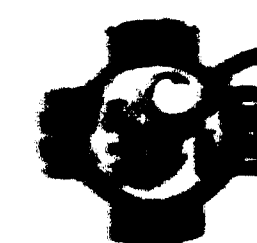
TYPE LOG



NORTHWEST PIPELINE
ROSA UNIT NO. 68
NW 1/4 SEC. 17, T31N, R3W
KB. 6324 TD. 8132



DAKOTA FORMATION
INITIAL POTENTIAL DATE: 8/80
INITIAL POTENTIAL: 5757 MCFSPD/0.80PD
AVERAGE ANNUAL PRODUCTION RATE (1-1-80): 609 MCFSPD/0.80PD
CUMULATIVE PRODUCTION (1-1-80): 0.083 SCF6/0.80
PERFORATIONS: 7864-8057
STIMULATION: 30,500 GAL. GEL. WATER-720,000 # SAND



A

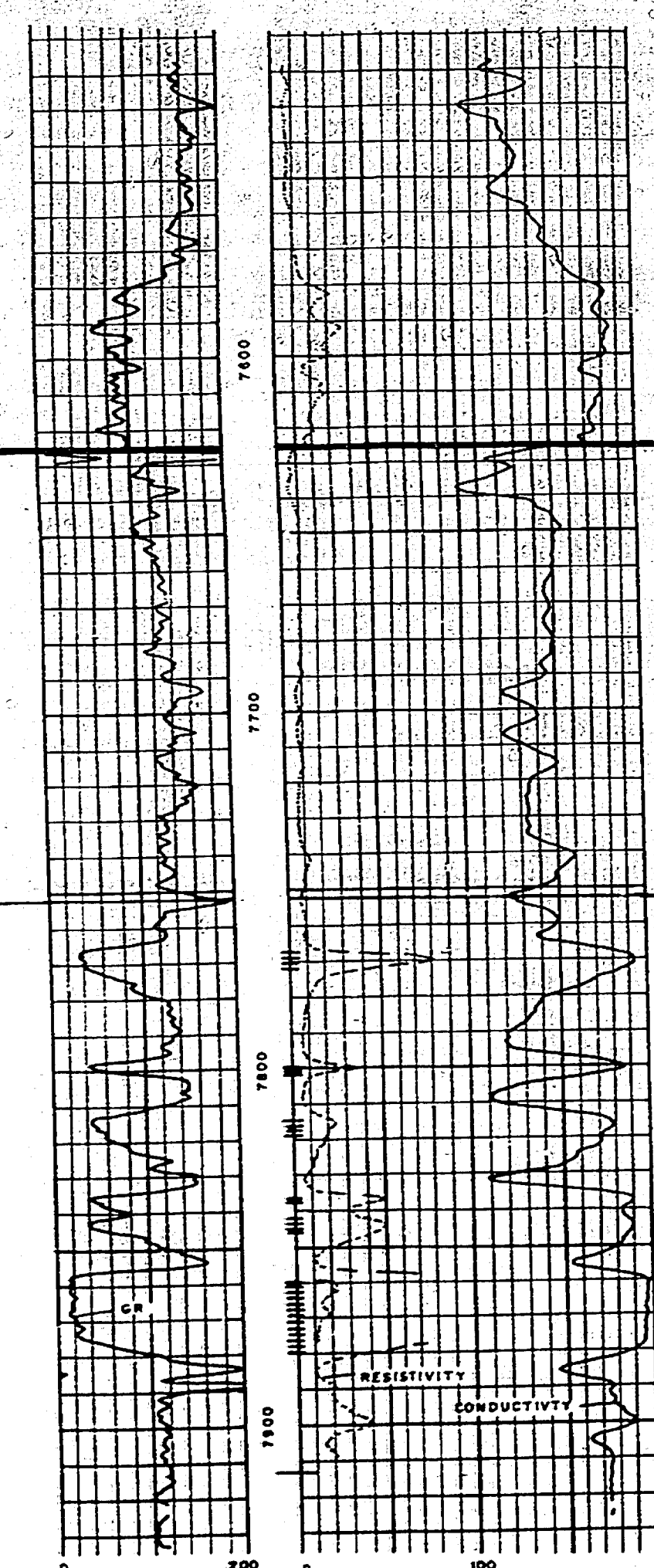
WEST

AMOCO PRODUCTION CO.
MCKAY NO. 1
NWNE SEC. 28, T31N, R7W
KB. 6405' TD. 7926'

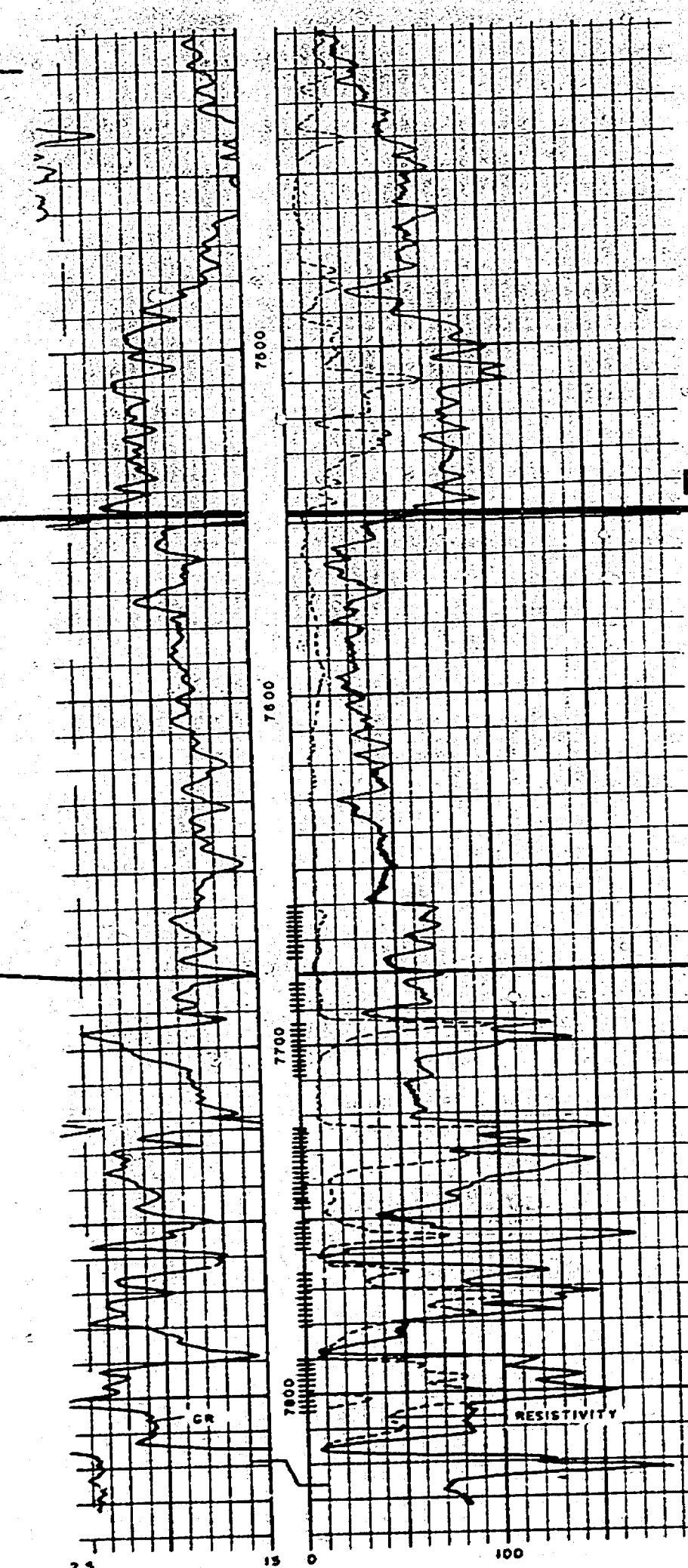
BLACKWOOD & NICHOLS
N.E. BLANCO UNIT NO. 56
NENE SEC. 34, T31N, R7W
KB. 6281' TD. 7825'

NORTHWEST PIPELINE
SAN JUAN 31-6 UNIT NO. 33
SWNE SEC. 34, T31N, R6W
KB. 6507' TD. 8014'

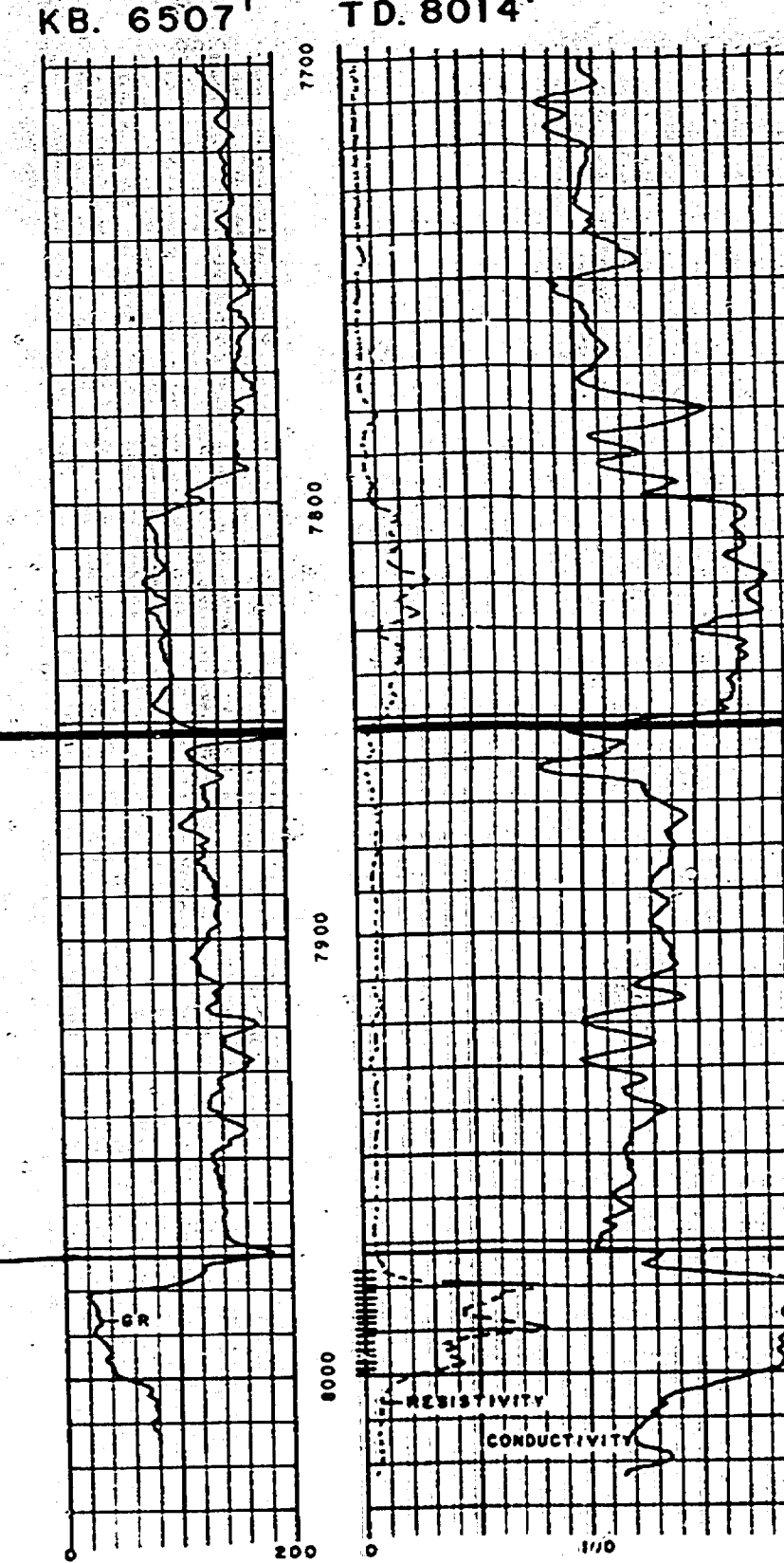
NORTHWEST PIPELINE
SAN JUAN 31-6 UNIT NO. 35
NENE SEC. 35, T31N, R6W
KB. 6493' TD. 8080'



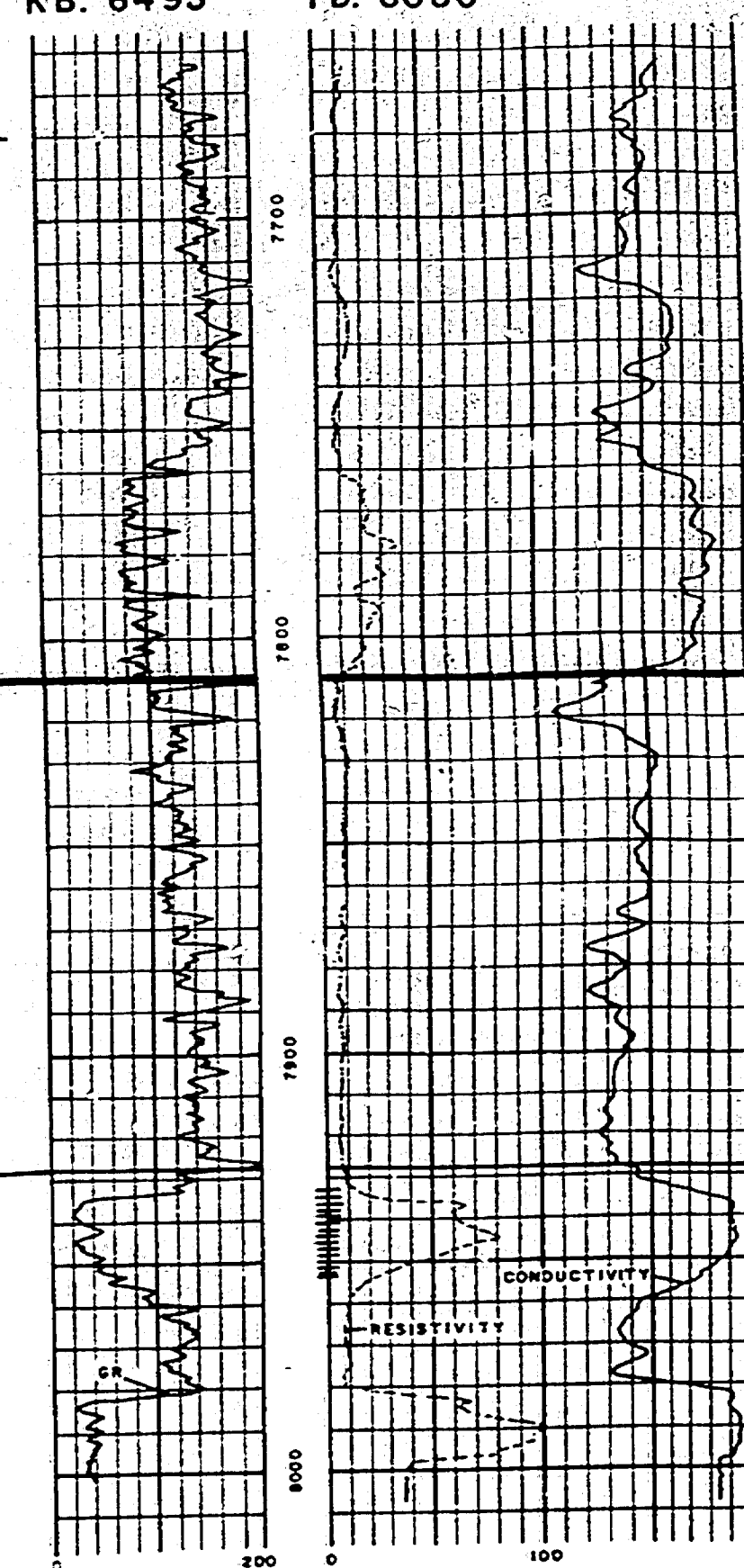
DAKOTA FORMATION
Drilled & Abandoned 5/71
Perforations: 7767'-7880'
Stimulation: 111,510 gal water, 52,100⁰ sand



DAKOTA FORMATION
Date of Initial Potential: 11/58
Initial Potential: 2839 MCFGD/OBCPD
Average 1980 Daily Production: 30 MCFGD/OBCPD
Cumulative Production (1-1-81): 0.417 BCF6/OBC
Perforations: 7660'-7805'
Stimulation: 63,000 gal water, 37,500⁰ sand
(Mesavada - Dakota Dual Completion)



DAKOTA FORMATION
Date of Initial Potential: 6/80
Initial Potential: 4119 MCFGD/OBCPD
Average 1980 Daily Production: New Well
Perforations: 7976'-8000'
Stimulation: Sand - Water Frac - 50,000⁰ Sand



DAKOTA FORMATION
Date of Initial Potential: 7/80
Initial Potential: 2643 MCFGD/OBCPD
Average 1980 Daily Production: New Well
Perforations: 7933'-7954'
Stimulation: Sand - Water Frac - 50,000⁰ Sand
Initial Unstimulated Production Rate: 338 MCFGD

DATUM - BASE GREENHORN

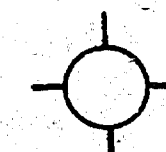
TOP DAKOTA SAND.



DAKOTA FORMATION
Date of Initial Potential: Drilled & Abandoned
in Dakota 11/63
(Mesoverde Completion)

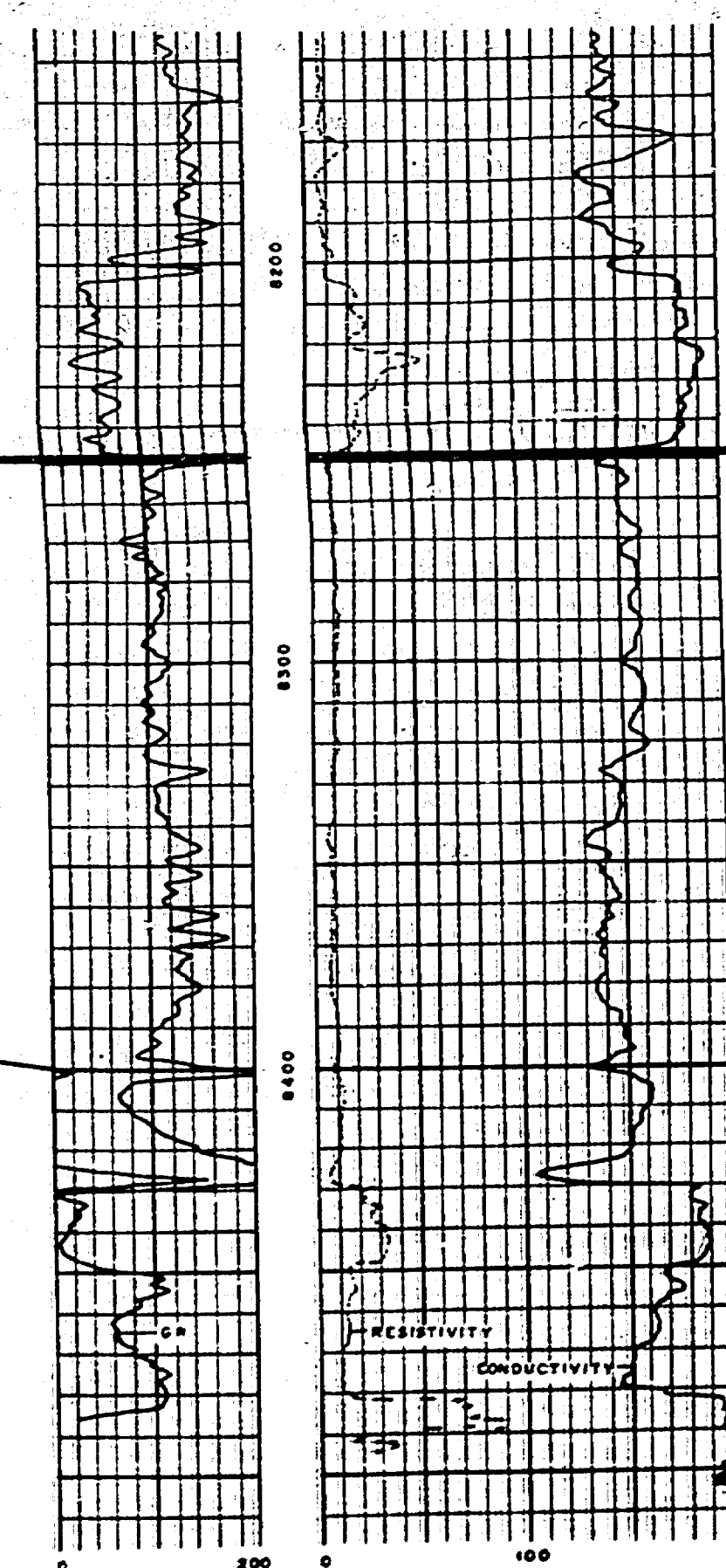
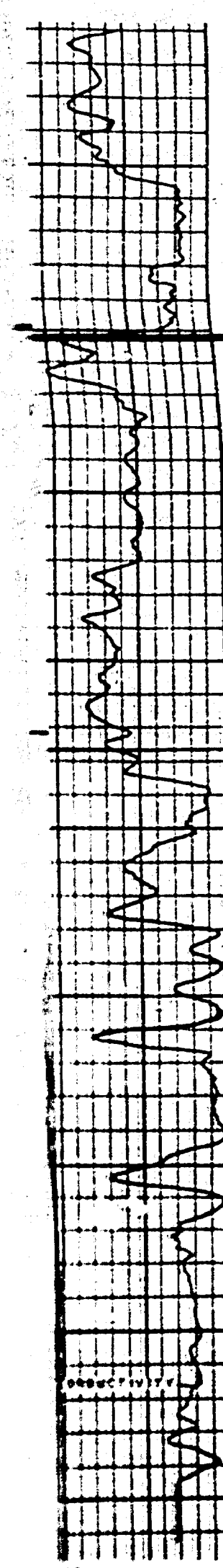


A'
EAST



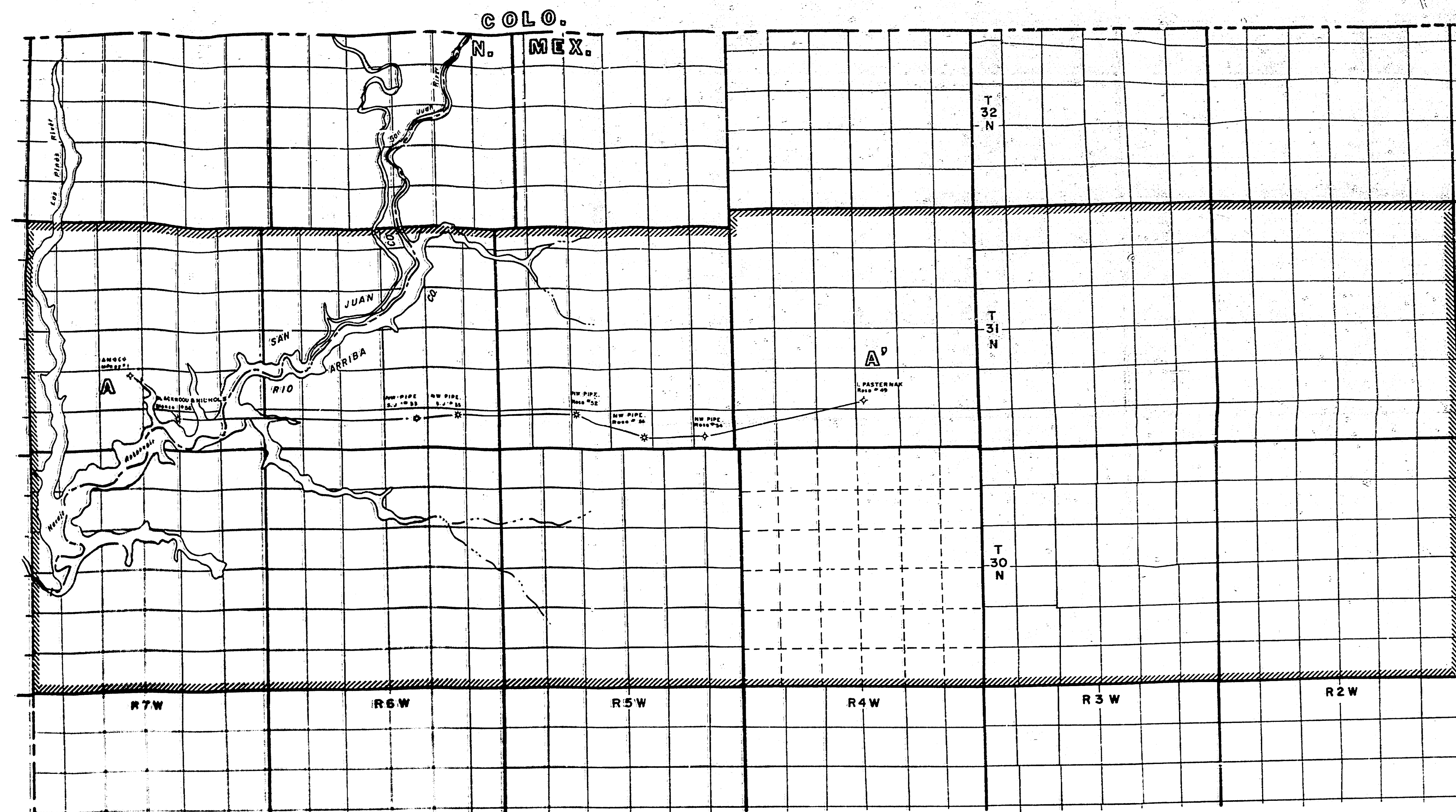
IRVING PASTERNAK
ROSA UNIT NO. 49
SWSW SEC. 27, T 31N, R 4W
KB. 6818' TD. 8227'

4.0 MI.



DAKOTA FORMATION
Date of Initial Potential: Drilled & Abandoned
in Dakota 11/63
(Mesaverde Completion)

DN
9/74
HPD / D BCPD
P & A in Dakota 8/78
0.029 BOPG/D SC
BS
WSL-400" Bond (No Cement)
(No Water)



FOUR CORNERS GAS
PRODUCERS

ROSA AREA

DAKOTA FORMATION TIGHT GAS
RIO ARriba & SAN JUAN CO'S., N. M.

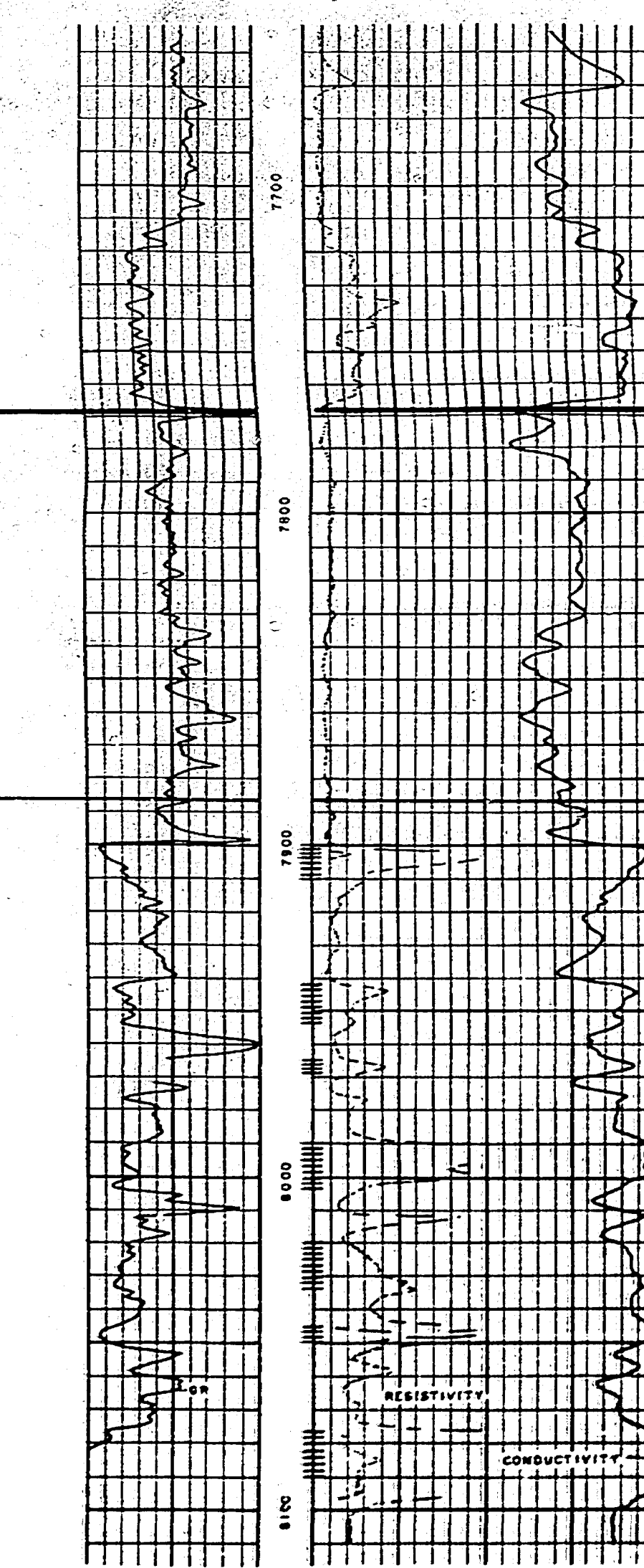
VERTICAL SCALE 2 1/2" = 100'
HORIZONTAL SCALE NONE



B

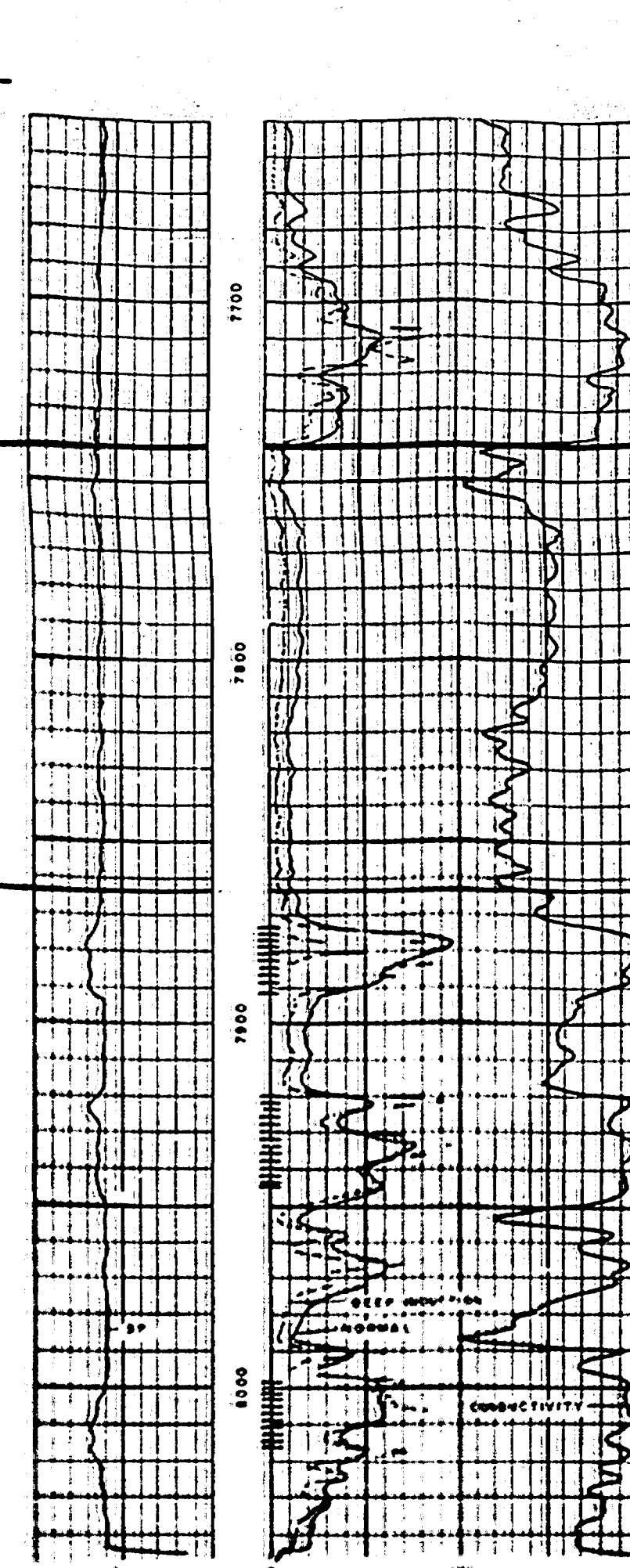
NORTH

NORTHWEST PIPELINE
ROSA UNIT NO. 53
NENE SEC. 8, T31N, R5W
KB. 6380' TD. 8110'



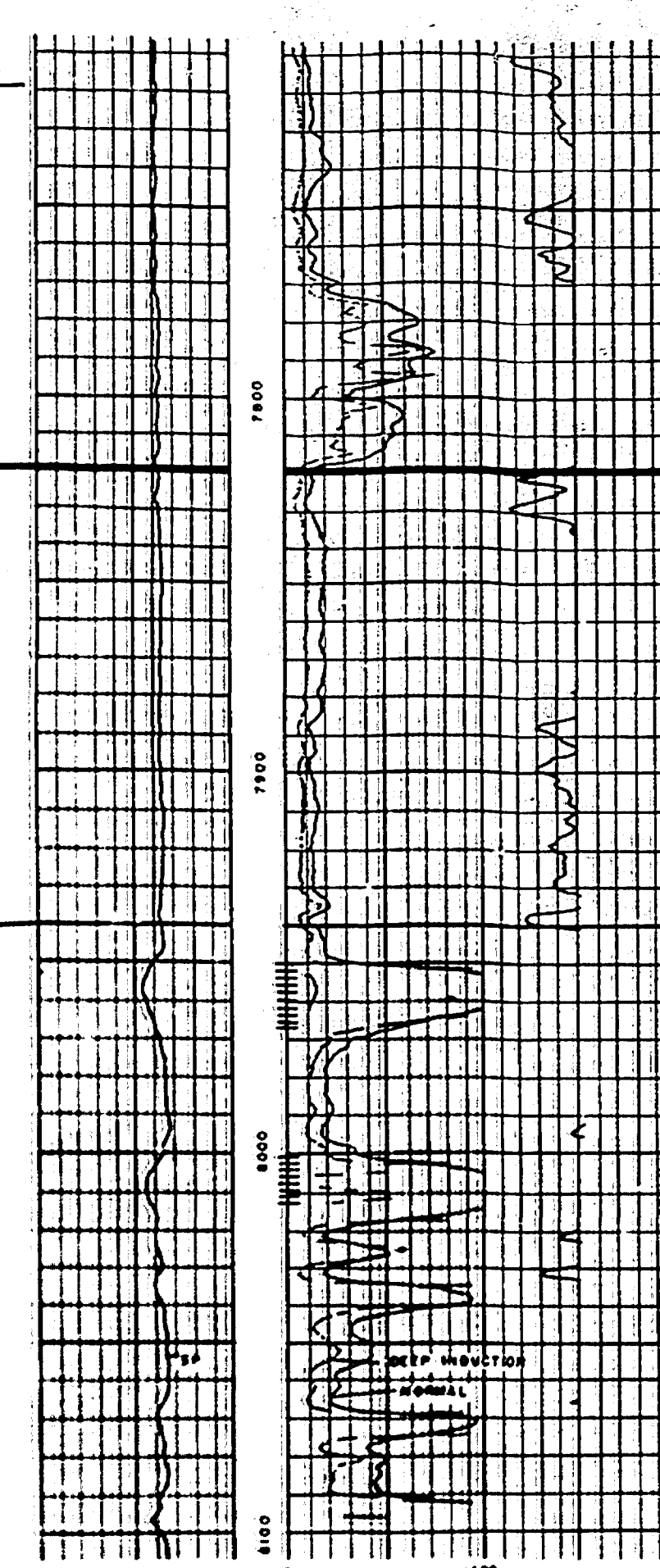
DAKOTA FORMATION
Date of Initial Potential: 3/70
Initial Potential: 1043 MCFPD/O BCPD
Average 1980 Daily Production: 126 MCFPD/O BCPD
Cumulative Production (I-H-BI): 0.668 BCFG/O BC
Perforations: 7900' - 8090'
Stimulation: 69,000 Gal. Water - 44,500⁰ Sand

NORTHWEST PIPELINE
ROSA UNIT NO. 65
NENE SEC. 17, T31N, R5W
KB. 6307' TD. 8034'



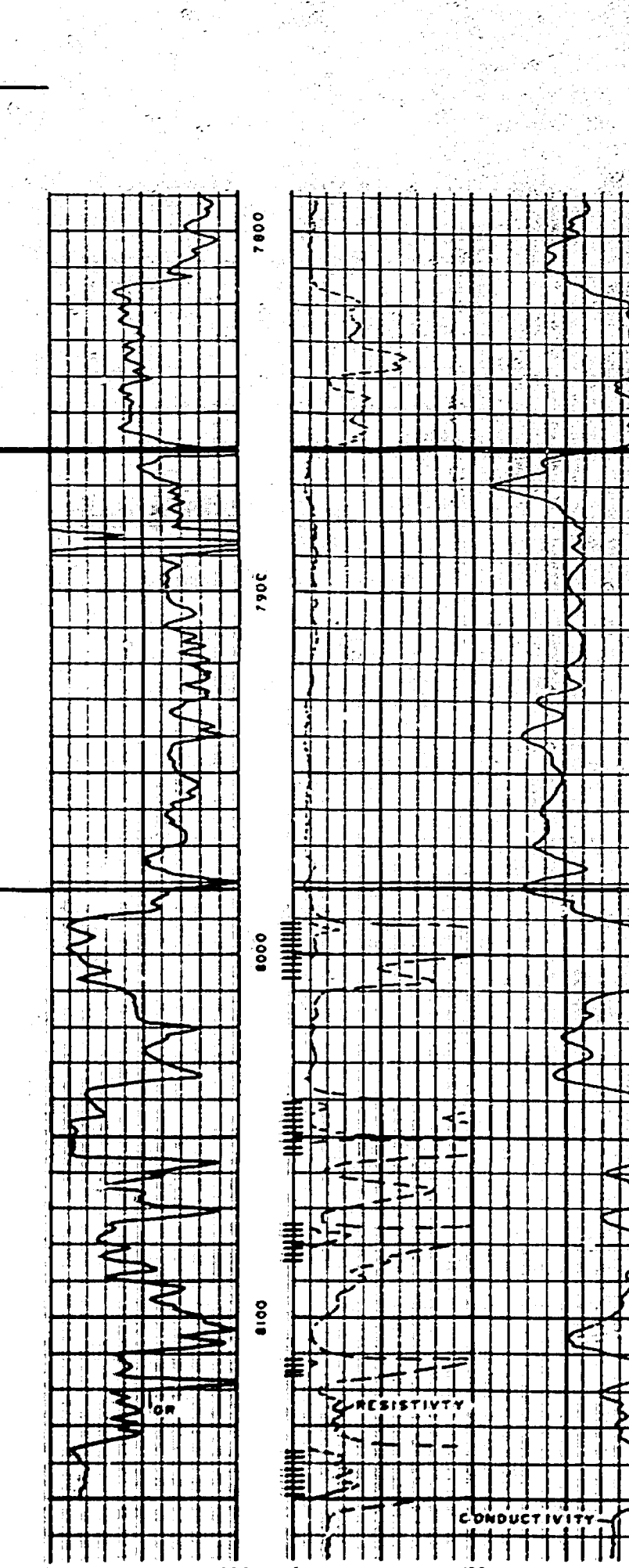
DAKOTA FORMATION
Date of Initial Potential: 8/78
Initial Potential: 3095 MCFPD/O BCPD
Average 1980 Daily Production: 163 MCFPD/O BCPD
Cumulative Production (I-H-BI): 0.104 BCFG/O BC
Perforations: 7874' - 8017'
Stimulation: 136,000 Gal. Water - 264,000⁰ Sand

NORTHWEST PIPELINE
ROSA UNIT NO. 64
NENE SEC. 29, T31N, R5W
KB. 6410' TD. 8108'



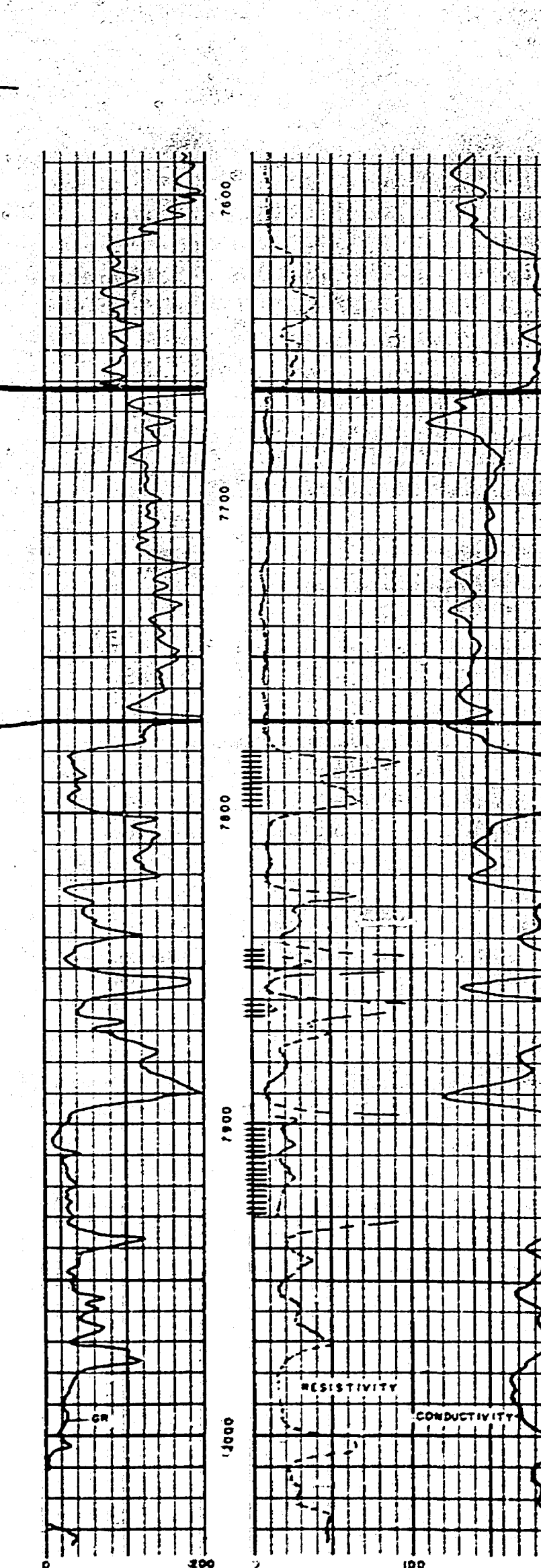
DAKOTA FORMATION
Date of Initial Potential: 10/78
Initial Potential: 1843 MCFPD/O BCPD
Average 1980 Daily Production: 175 MCFPD/O BCPD
Cumulative Production (I-H-BI): 0.132 BCFG/O BC
Perforations: 7950' - 8014'
Stimulation: 163,000 Gal. Water - 290,000⁰ Sand

NORTHWEST PIPELINE
ROSA UNIT NO. 52
NW NW SEC. 33, T31N, R5W
KB. 6518' TD. 8160'



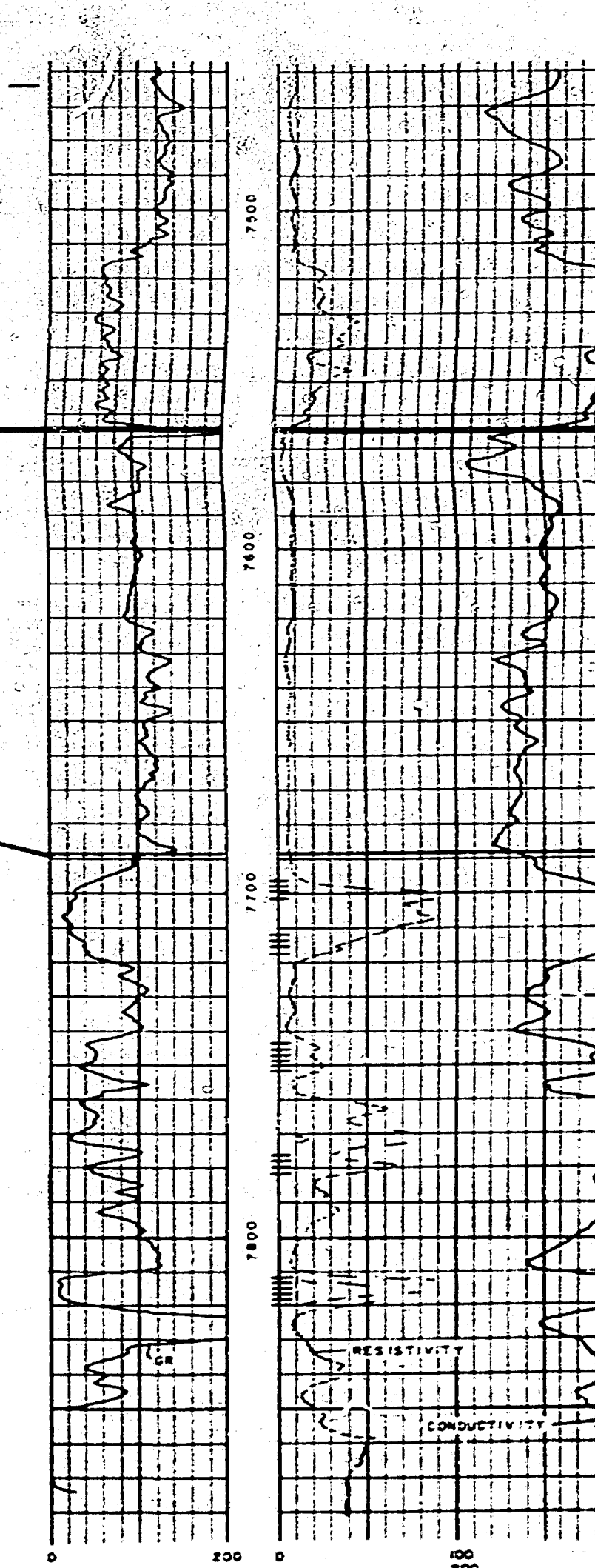
DAKOTA FORMATION
Date of Initial Potential: 2/70
Initial Potential: 2401 MCFPD/O BCPD
Average 1980 Daily Production: 245 MCFPD/O BCPD
Cumulative Production (I-H-BI): 1.025 BCFG/O BC
Perforations: 7992' - 8150'
Stimulation: 51,510 Gal. Water - 39,000⁰ Sand

SOUTHLAND ROYALTY CO.
CAT DRAW NO. 1
SW SW SEC. 4, T30N, R5W
KB. 6393' TD. 8025'



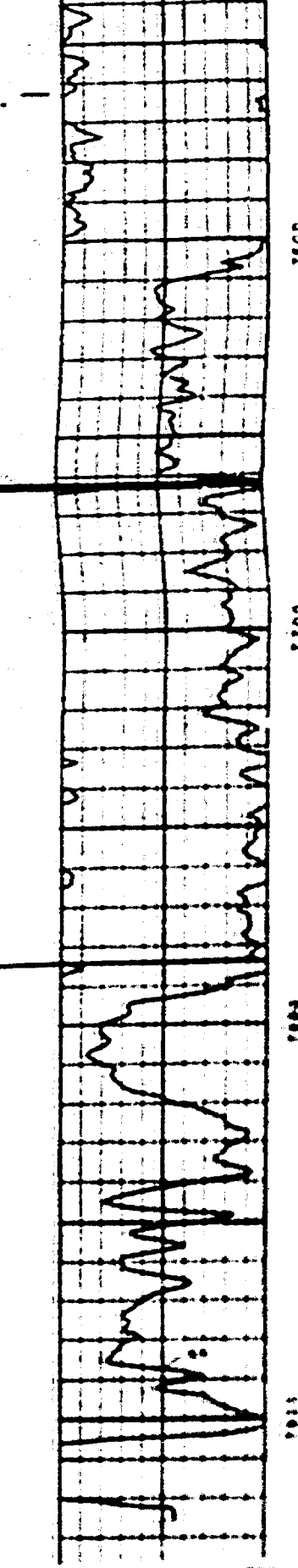
DAKOTA FORMATION
Date of Initial Potential: 9/68
Initial Potential: 2074 MCFPD/O BCPD
Average 1980 Daily Production: S.I.
Cumulative Production (I-H-BI): 0.186 BCFG/O BC
Perforations: 7750' - 7930'
Stimulation: 119,240 Gal. Water - 84,000⁰ Sand

NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 37
NE SW SEC. 8, T30N, R5W
KB. 6332' TD. 7870'



DAKOTA FORMATION
Date of Initial Potential: 1/74
Initial Potential: 3944 MCFPD/O BCPD
Average 1980 Daily Production: 87 MCFPD/O BCPD
Cumulative Production (I-H-BI): 0.503 BCFG/O BC
Perforations: 7696' - 7820'
Stimulation: 61,235 Gal. Water - 50,000⁰ Sand
Initial Unstimulated Production Rate: 666 MCFPD

NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 37
NW SW SEC. 17, T30N, R5W
KB. 6422'



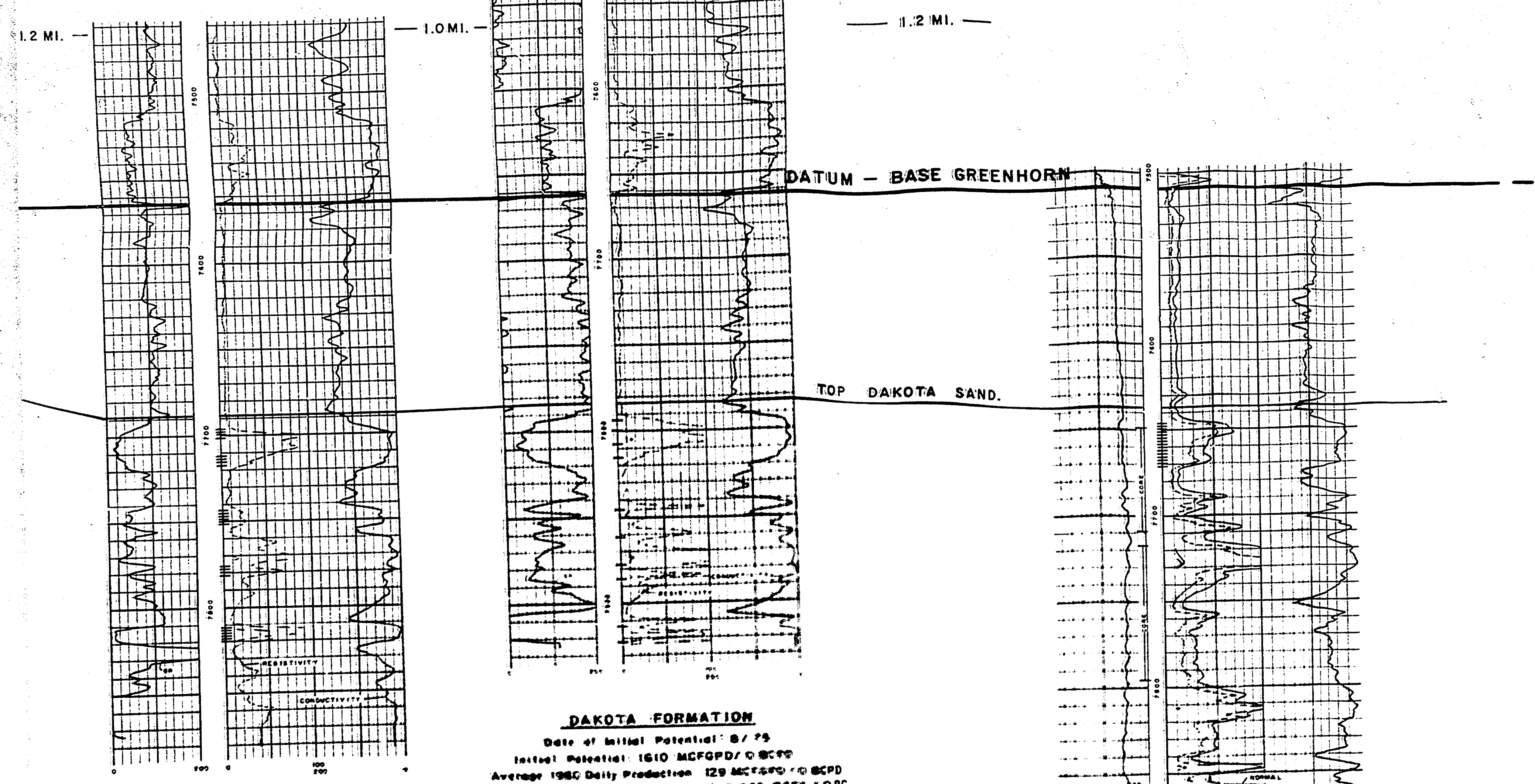
DAKOTA FORMATION
Date of Initial Potential: 1/74
Initial Potential: 3944 MCFPD/O BCPD
Average 1980 Daily Production: 87 MCFPD/O BCPD
Cumulative Production (I-H-BI): 0.503 BCFG/O BC
Perforations: 7696' - 7820'
Stimulation: 61,235 Gal. Water - 50,000⁰ Sand
Initial Unstimulated Production Rate: 666 MCFPD

B'
SOUTH

NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 37
NESW SEC. 8, T30N, R5W
KB. 6332' TD. 7870'

NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 47
NW SW SEC. 17, T30N, R5W
KB. 6422' TD. 7930'

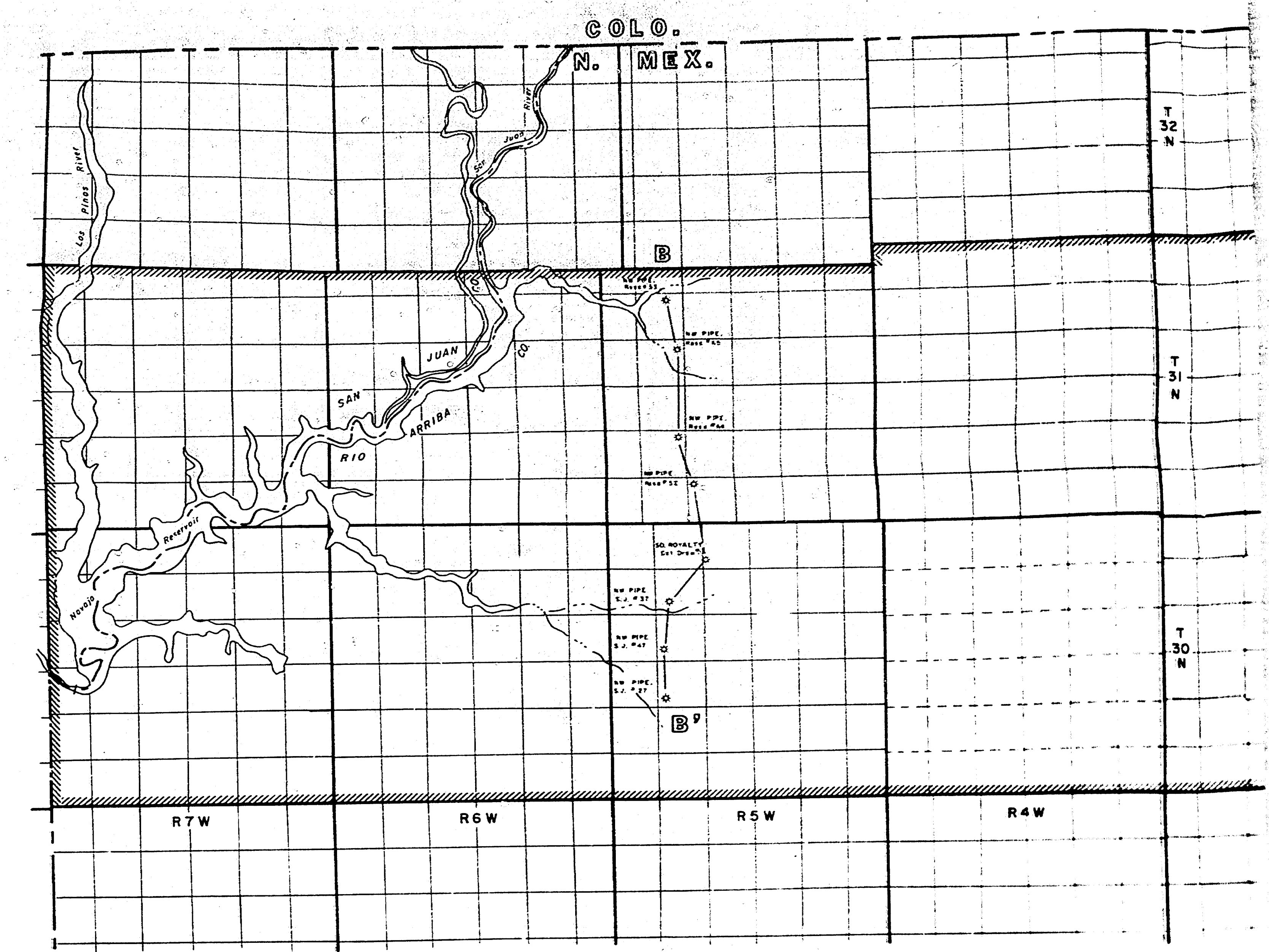
NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 27
SW SW SEC. 20, T30N, R5W
KB. 6307' TD. 7890'



DAKOTA FORMATION
Date of Initial Potential: 1/74
Initial Potential: 3944 MCFPD/O BCPD
Average 1980 Daily Production: 67 MCFPD/O BCPD
Cumulative Production (1-1-81): 0503 BCFG/O BC
Perforations: 7696'-7820'
Stimulation: 51,235 Gal Water-30,000" Sand
Initial Unstimulated Production Rate: 306 MCFPD

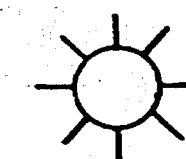
DAKOTA FORMATION
Date of Initial Potential: 8/79
Initial Potential: 1610 MCFPD/O BCPD
Average 1980 Daily Production: 129 MCFPD/O BCPD
Cumulative Production (1-1-81): 0239 BCFG/O BC
Perforations: 7794'-7924'
Stimulation: 30,000 Gal Water-43,000" Sand
Initial Unstimulated Production Rate: 272 MCFPD

DAKOTA FORMATION
Date of Initial Potential: 12/79
Initial Potential: 1309 MCFPD/O BCPD
Average 1980 Daily Production: 24 MCFPD/O BCPD
Cumulative Production (1-1-81): 0248 BCFG/O BC
Perforations: 7646'-7799'
Stimulation: 14,500 Gal Oil - 13,000" Sand



B'

SOUTH



PIPELINE
UNIT NO. 47
T30N, R5W
D. 7930'

NORTHWEST PIPELINE
SAN JUAN 30-5 UNIT NO. 27
SWSW SEC. 20, T30N, R5W
KB. 6307' TD. 7890'

1.2 MI.

DATUM - BASE GREENHORN

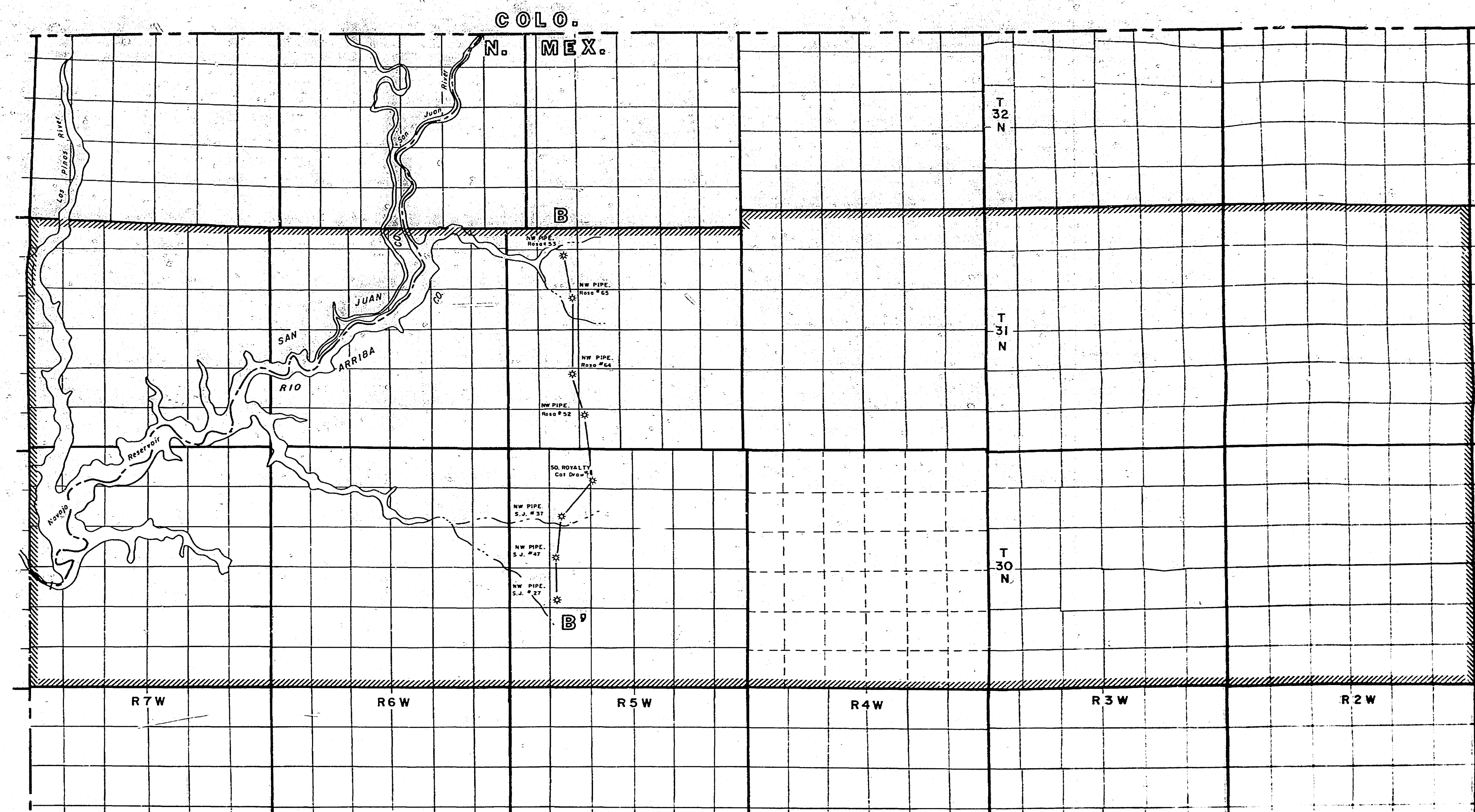
TOP DAKOTA SAND.

A FORMATION

Initial Potential: 8/75
1610 MCFGPD / O BCPD
Production: 129 MCFGPD / O BCPD
tion (1-1-81) 0.235 SCF6 / OBC
is: 7794' - 7924'
300 Gal. Water - 43,000' Sand
Production Rate: 2174 MCFGPD

DAKOTA FORMATION

Date of Initial Potential: 12/59
Initial Potential: 1509 MCFGPD / O BCPD
Average 1980 Daily Production: 38 MCFGPD / O BCPD
Cumulative Production (1-1-81): 0.248 SCF6 / OBC
Cored Interval: 7645' - 7789'
Perforations: 7645' - 7672'
Stimulation: 14,500 Gal. Oil - 15,000' Sand



**FOUR CORNERS GAS
PRODUCERS**

ROSA AREA

DAKOTA FORMATION TIGHT GAS

RIO ARRIBA & SAN JUAN CO'S., N.M.

VERTICAL SCALE 2 1/2" = 100'
HORIZONTAL SCALE NONE

