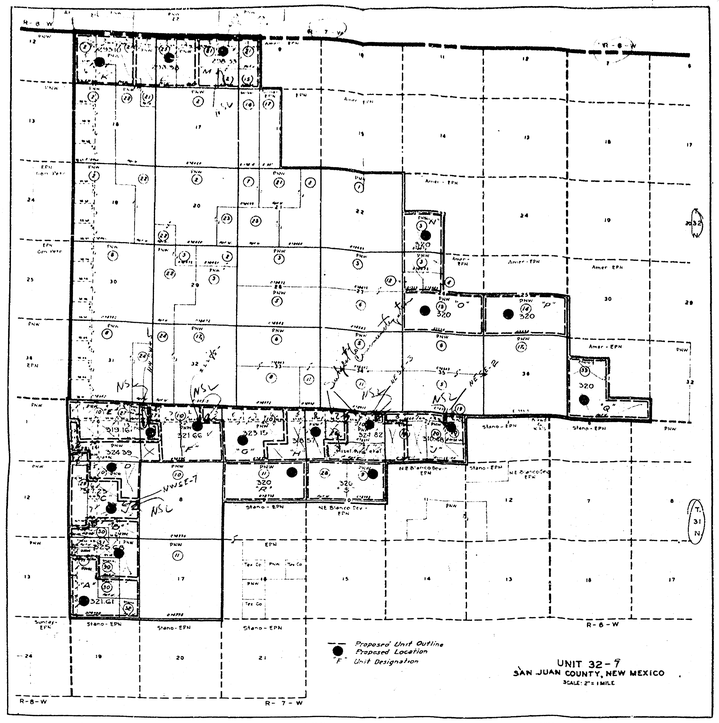
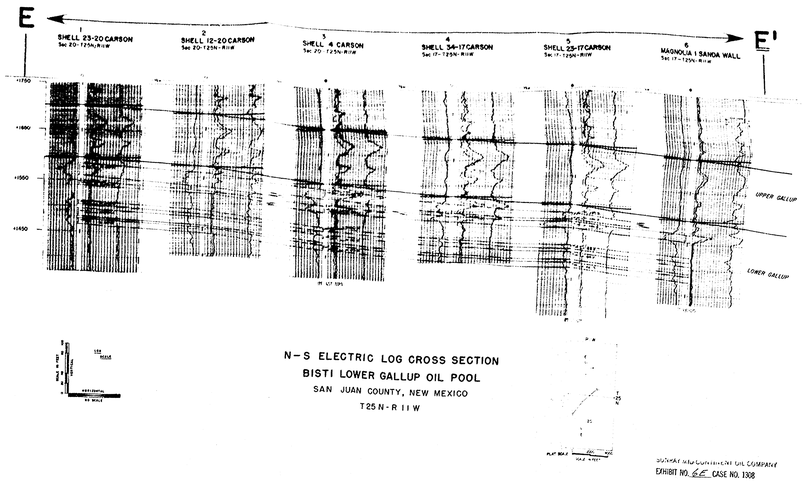
Case No.

1308

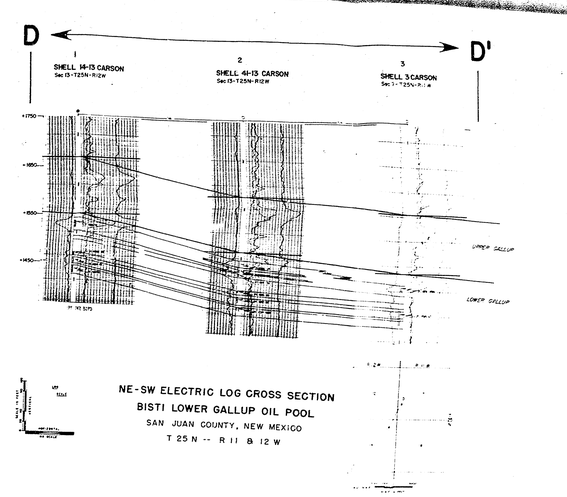
Large Exhibits



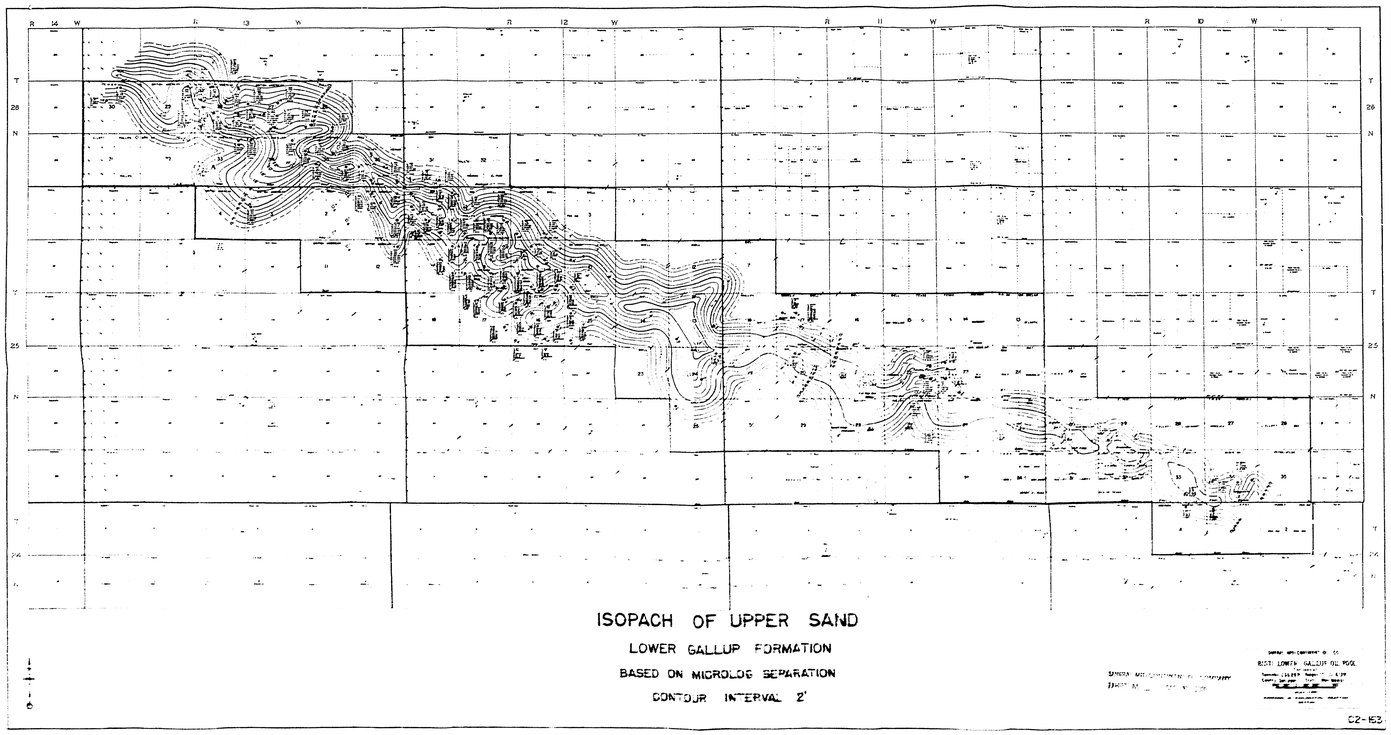




N-S ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T25N-R11W

SOUTHERN UNION EXPLORATION COMPANY
EXHIBIT NO. 22 CASE NO. 1308



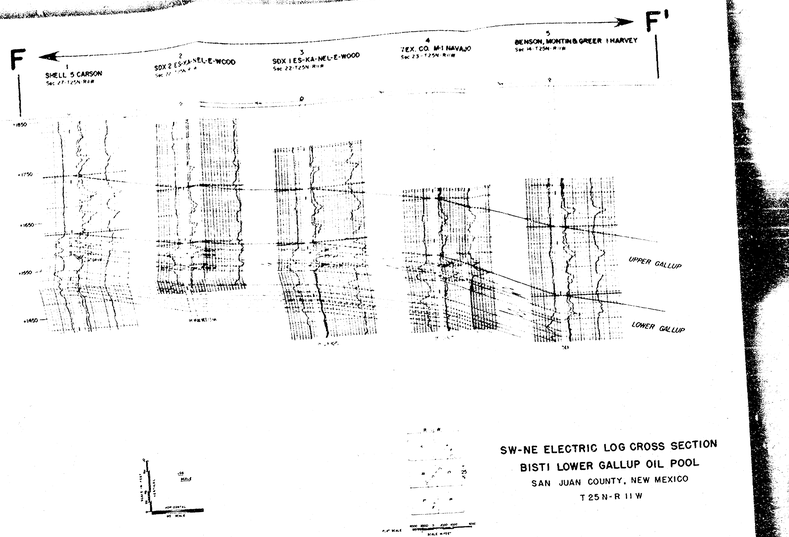

NE-SW ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 25 N -- R 11 & 12 W




ISOPACH OF UPPER SAND
LOWER GALLUP FORMATION
BASED ON MICROLOG SEPARATION
CONTOUR INTERVAL 2'

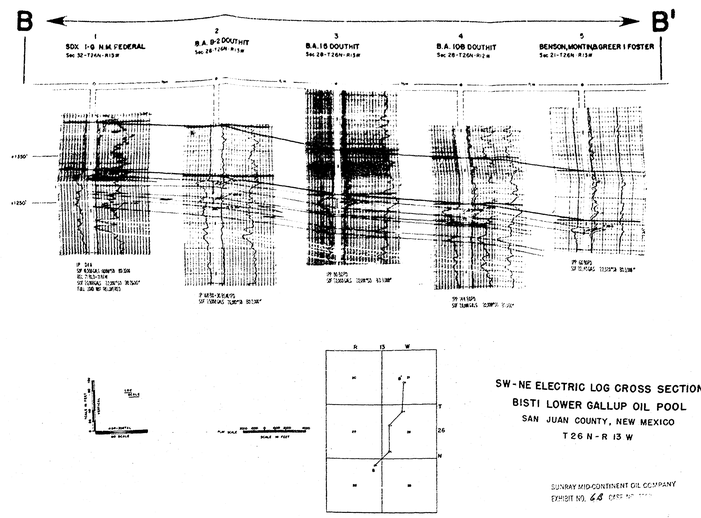
BISTI LOWER GALLUP OIL POOL

C2-153



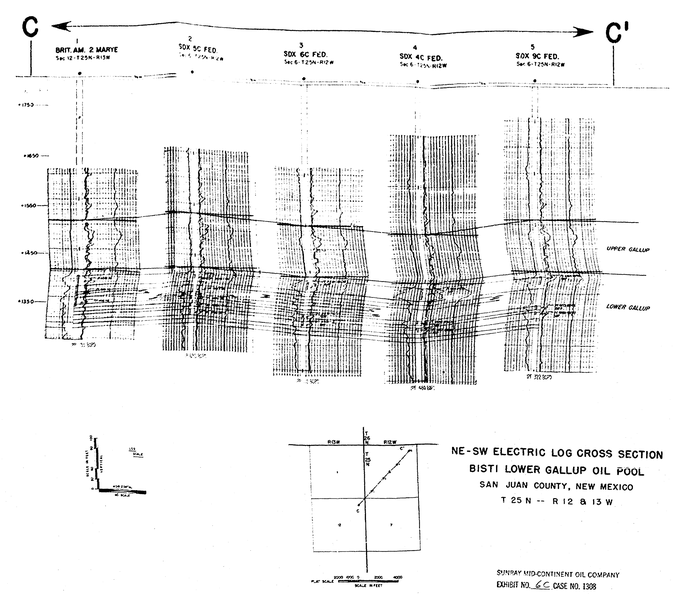

SW-NE ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 25 N - R 11 W

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 6F CASE NO. 1308



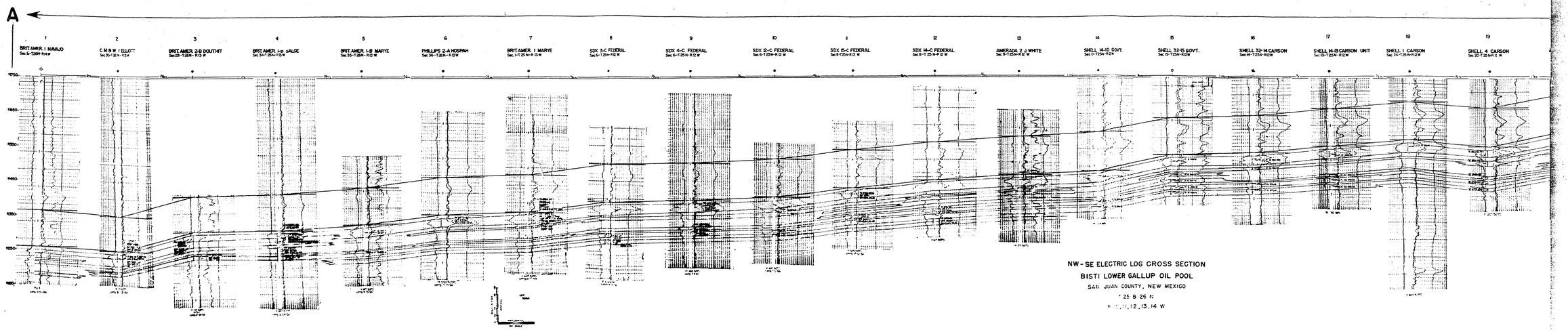

SW-NE ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 26 N - R 13 W

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 6E CASE NO. 1308

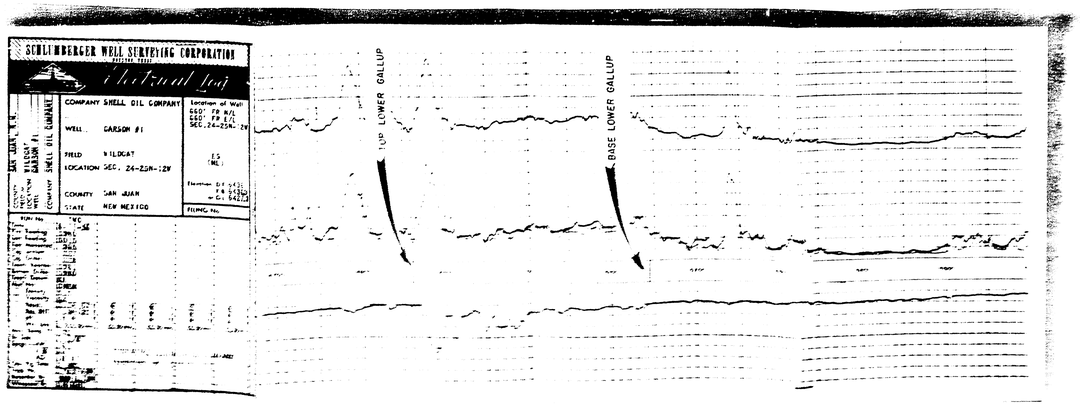


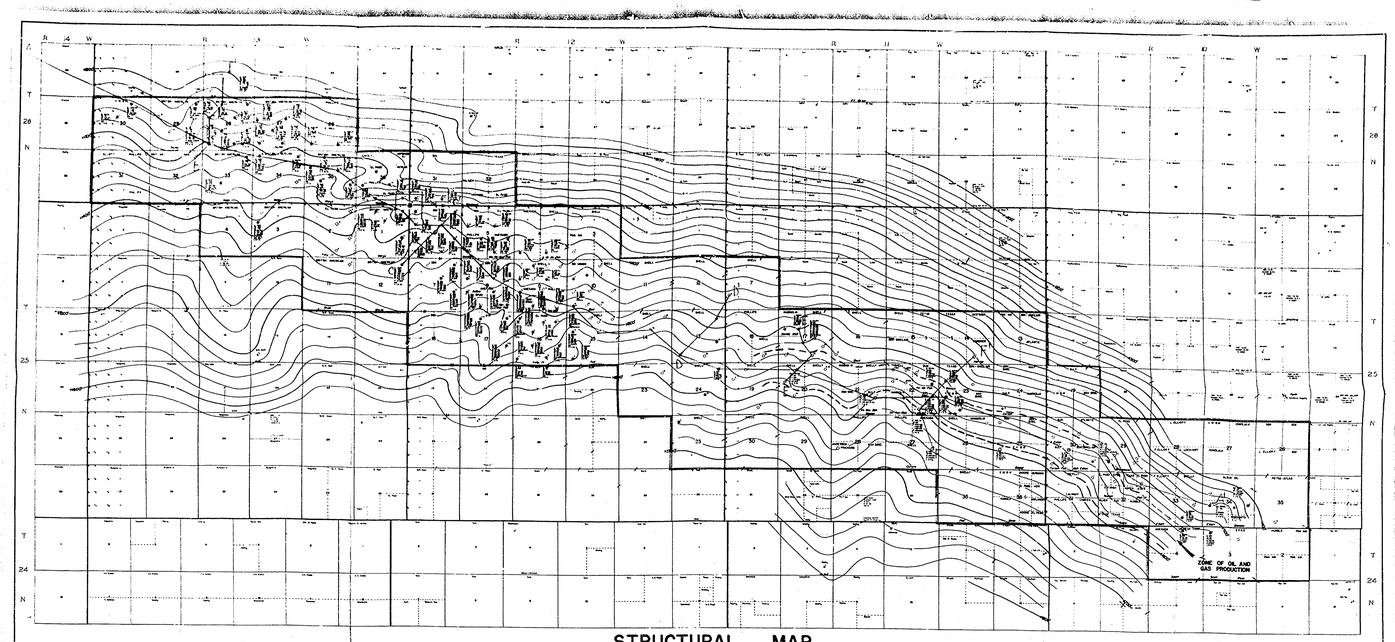

NE-SW ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 25 N -- R 12 & 13 W

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 6G CASE NO. 1308




NW-SE ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 25 & 26 N
R 10, 11, 12, 13, 14 W






# STRUCTURAL MAP

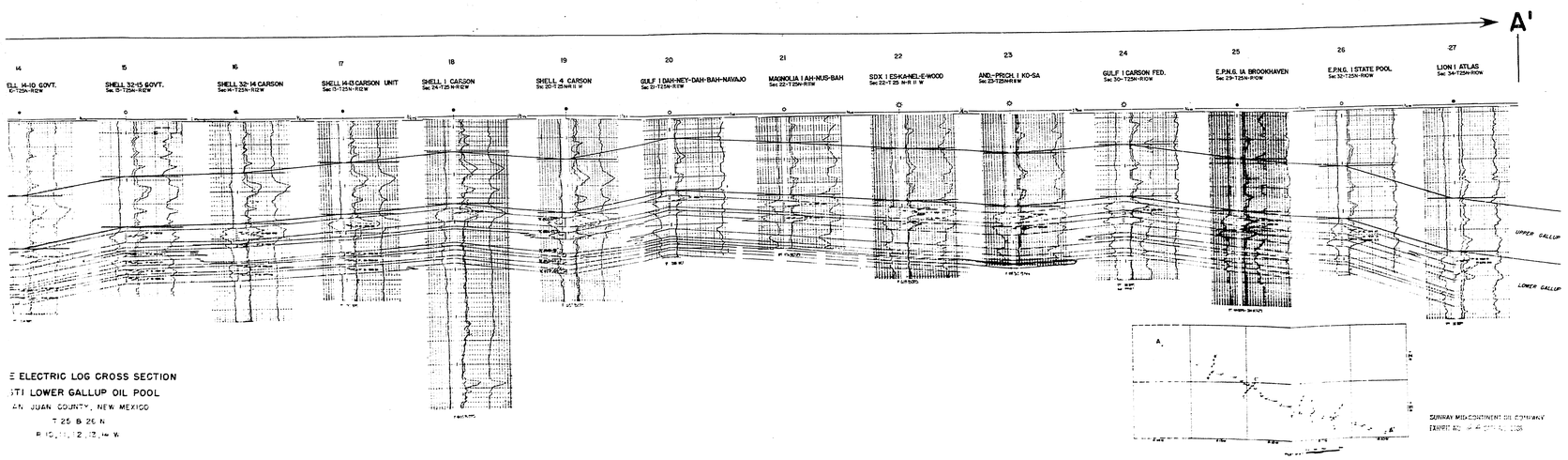
DATUM: TOP LOWER GALLUP FORMATION

CONTOUR INTERVAL 20'

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 5 CASE NO. 1308

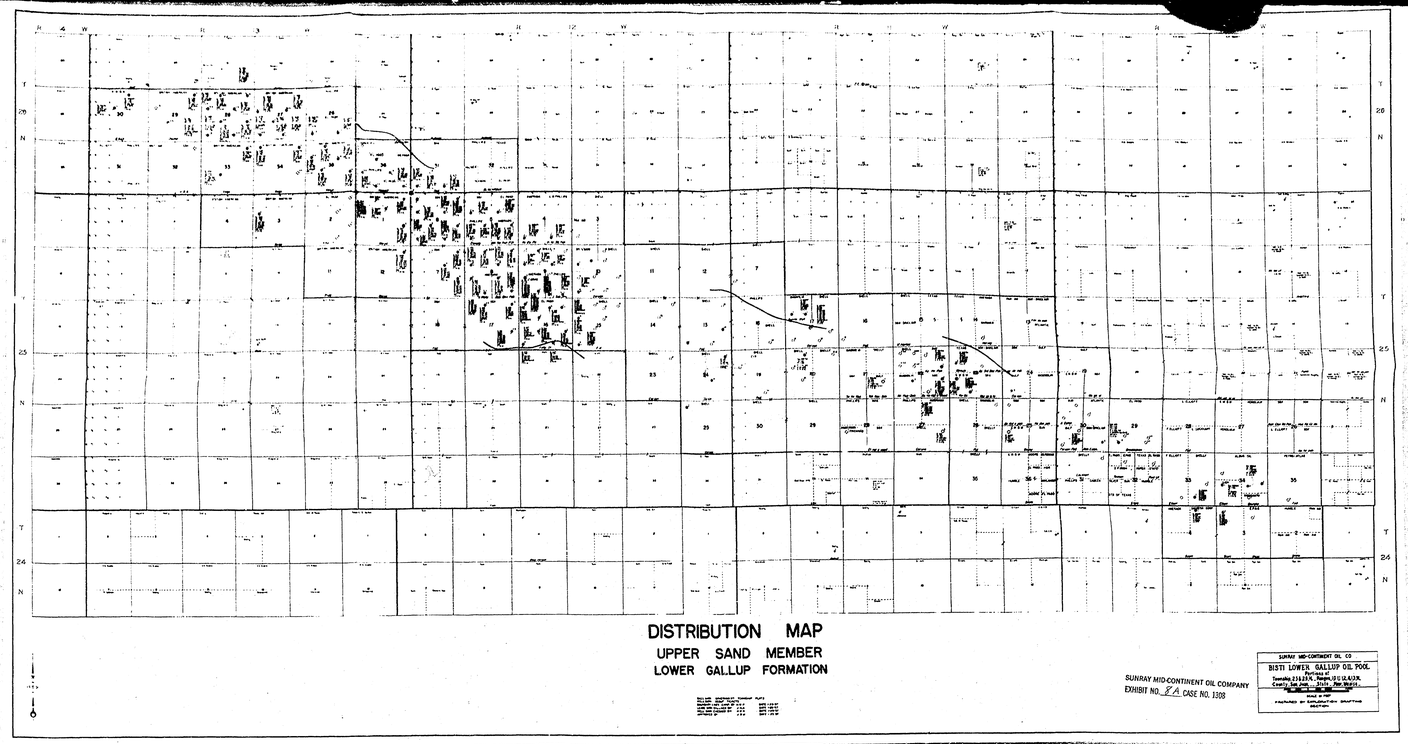
SUNRAY MID-CONTINENT OIL CO
BISTI LOWER GALLUP OIL POOL
San Juan County, New Mexico
Township 25 & 26 N., Ranges 10 thru 14 W.
County San Juan State New Mexico
DATE OF MAP
PREPARED BY EXPLORATION DRAFTING SECTION

C2-162




E ELECTRIC LOG CROSS SECTION
STI LOWER GALLUP OIL POOL
AN JUAN COUNTY, NEW MEXICO
T 25 & 26 N.
R 10, 11, 12, 13, 14 W.

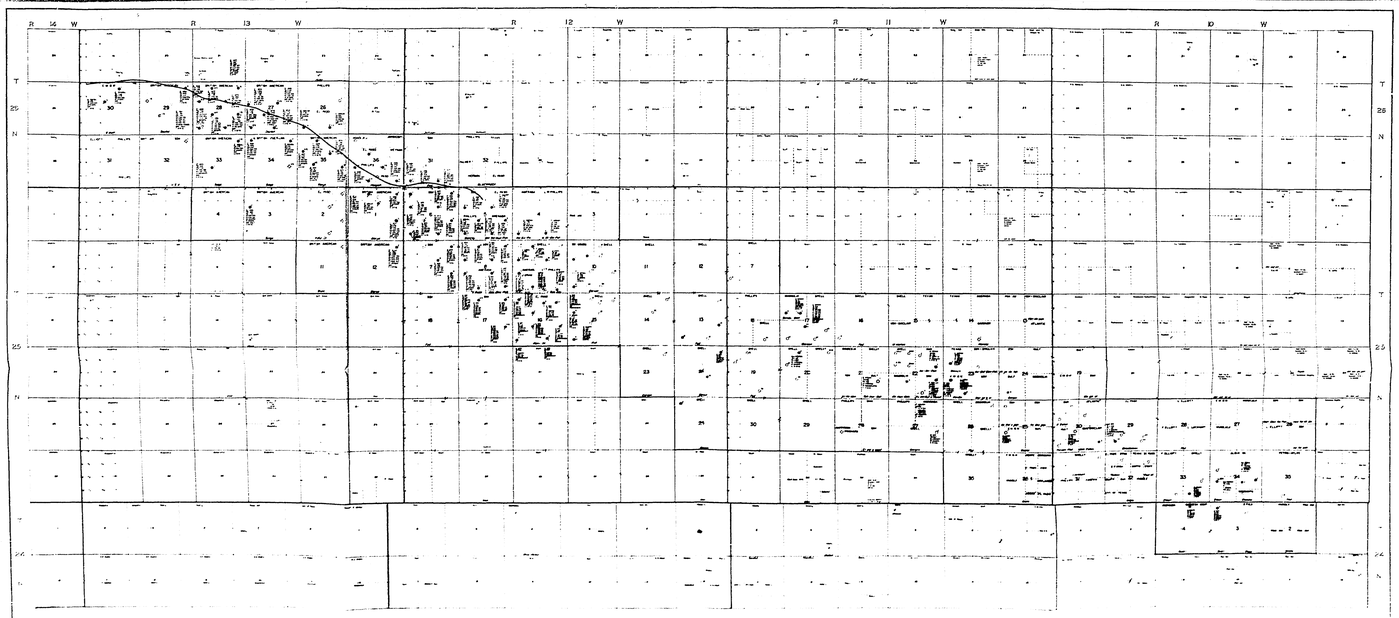
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 6 CASE NO. 1308




# DISTRIBUTION MAP
## UPPER SAND MEMBER
## LOWER GALLUP FORMATION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 8-A CASE NO. 1308

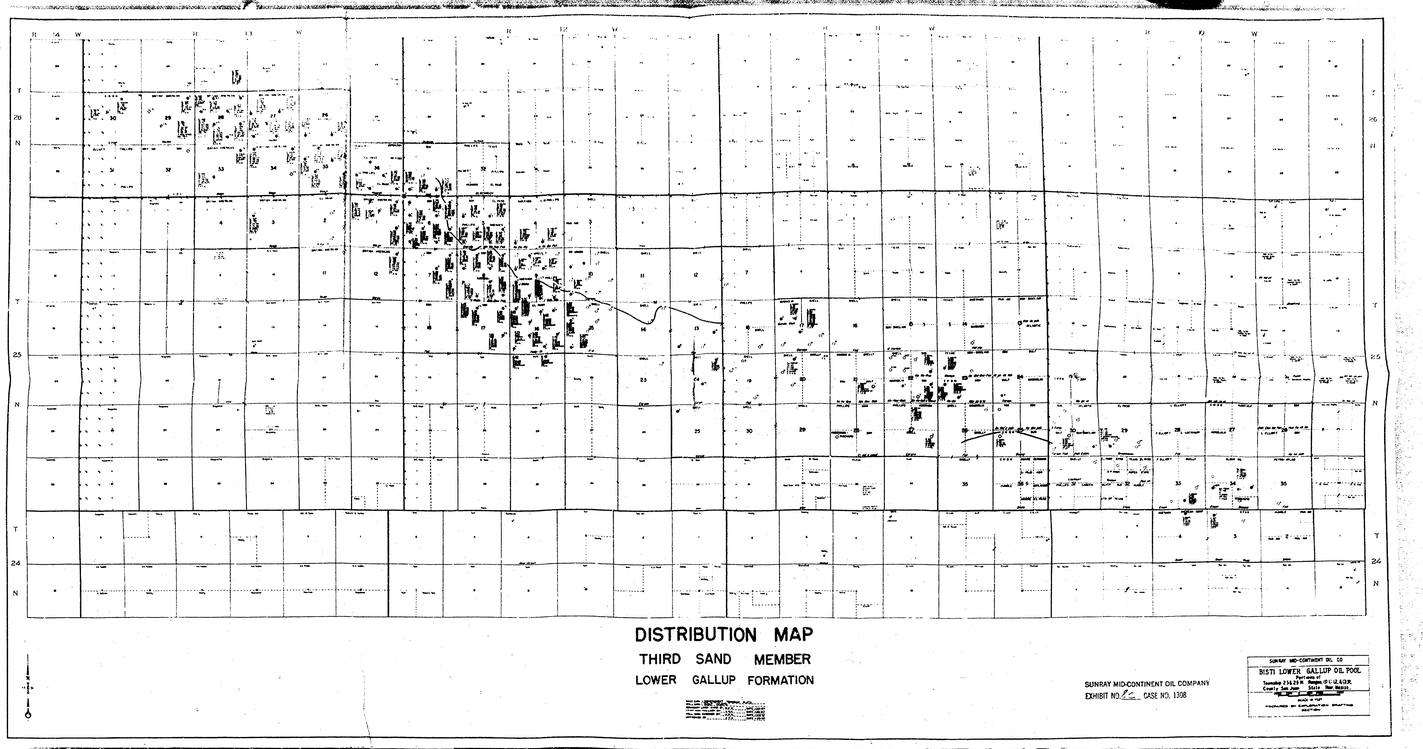
SUNRAY MID-CONTINENT OIL CO
BISTI LOWER GALLUP OIL POOL
Portions of
Township 25 North, Ranges 10 thru 14 West
San Juan County, New Mexico
Scale 1" = 1 Mile
Prepared by Engineering Department




# DISTRIBUTION MAP
## SECOND SAND MEMBER
## LOWER GALLUP FORMATION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 8-B CASE NO. 1308

SUNRAY MID-CONTINENT OIL CO
BISTI LOWER GALLUP OIL POOL
Portions of
Township 25 North, Ranges 10 thru 14 West
San Juan County, New Mexico
Scale 1" = 1 Mile
Prepared by Engineering Department



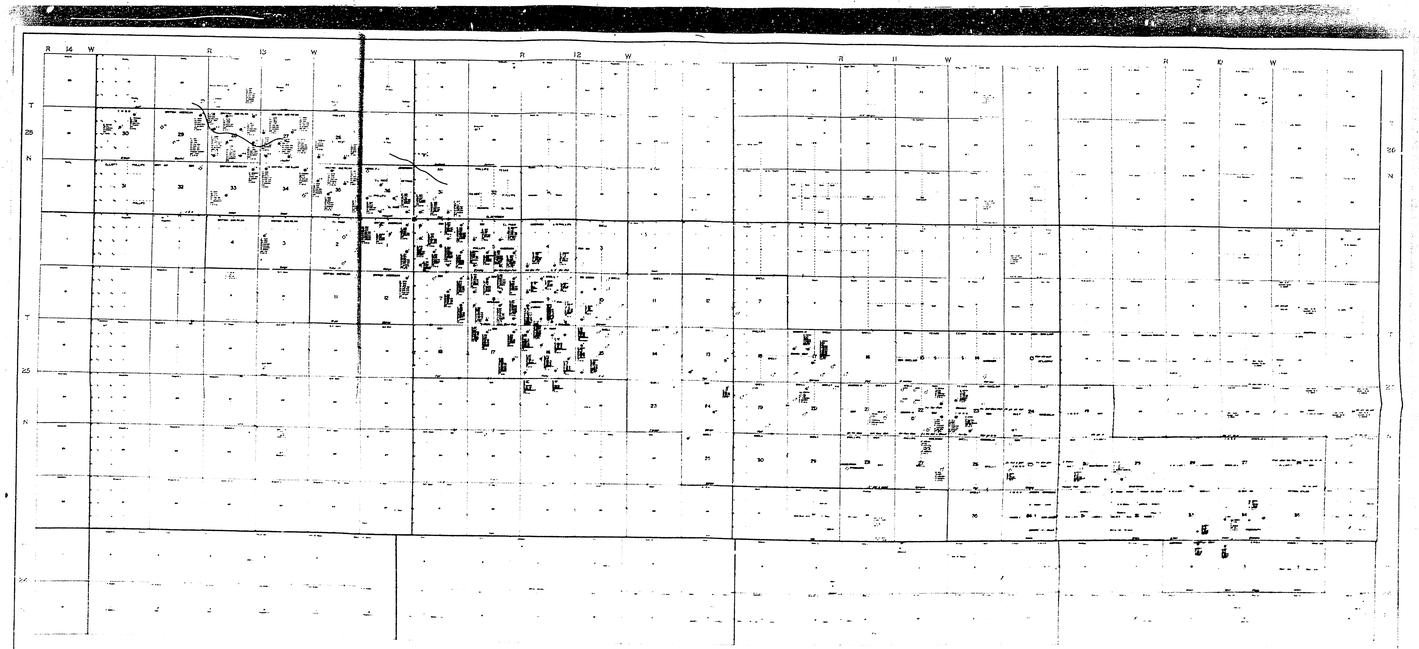

# DISTRIBUTION MAP

THIRD SAND MEMBER

LOWER GALLUP FORMATION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 12 CASE NO. 1308

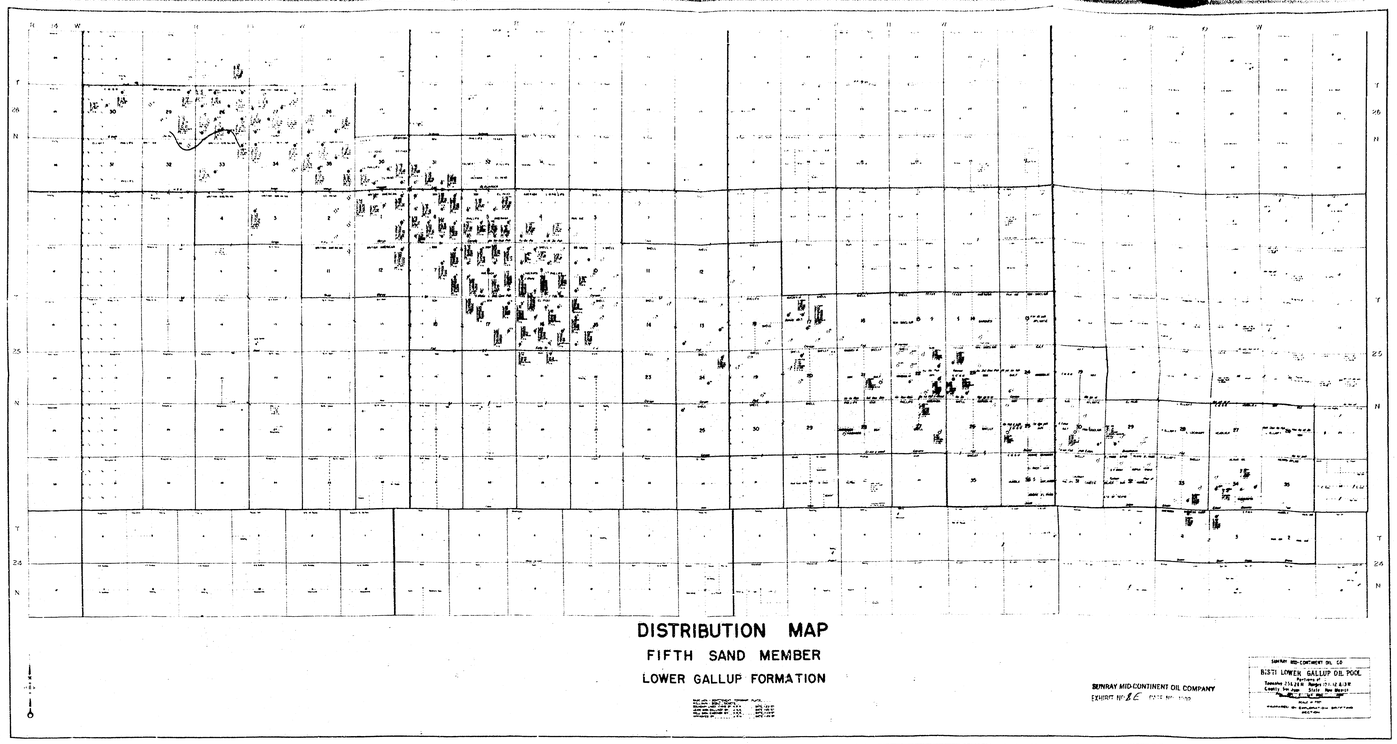
SUNRAY MID-CONTINENT OIL CO.
BISTI LOWER GALLUP OIL POOL
Portions of
Township 25 & 26 N., R. 13 & 14 W., N.M.P.M.
County San Juan State New Mexico
SCALE OF MAP
EXPLANATION OF CLASSIFICATION SYMBOLS




# DISTRIBUTION MAP

FOURTH SAND MEMBER

LOWER GALLUP FORMATION



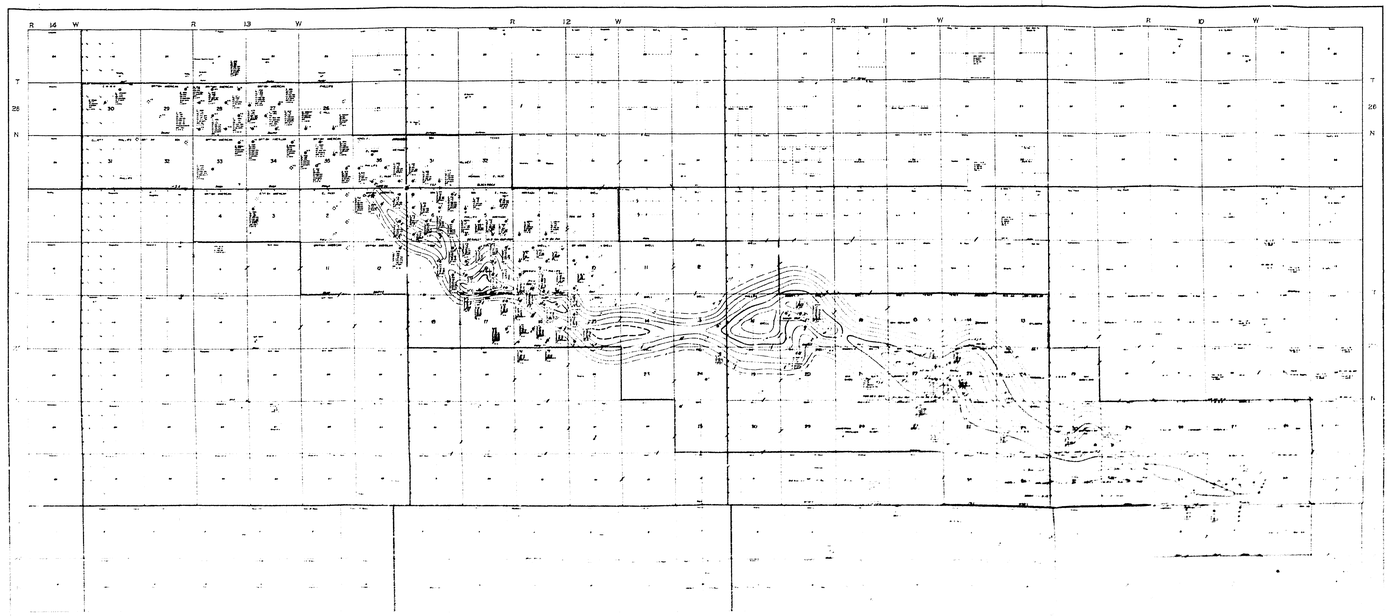
# DISTRIBUTION MAP

## FIFTH SAND MEMBER

## LOWER GALLUP FORMATION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 8-E

Sunray Mid-Continent Oil Co.
NEW LOWER GALLUP OIL POOL
Sec. Twp. Rge.
Location 21 & 28 N. Ranges 13 W & 14 W
County San Juan State New Mexico
Scale 1" = 1 mile Date
Area of Pool
Proposed Oil Gallup Oil Boundary

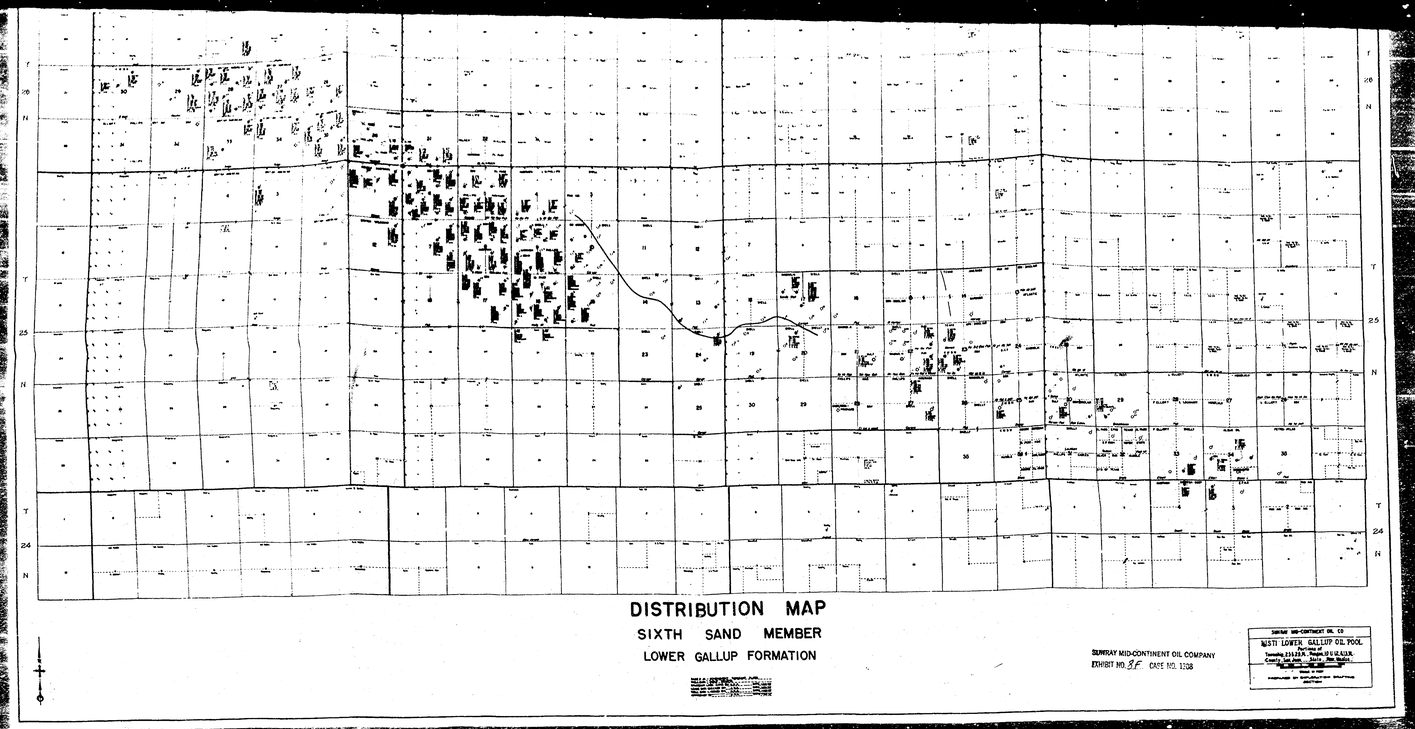


# ISOPACH OF SECOND SAND

## LOWER GALLUP FORMATION

BASED ON MICROLOG SEPARATION

CONTOUR INTERVAL 2



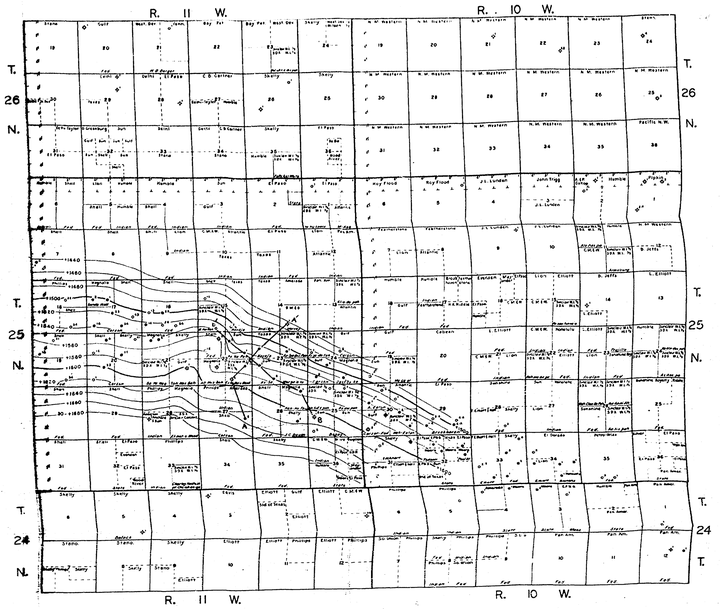
DISTRIBUTION MAP

SIXTH SAND MEMBER

LOWER GALLUP FORMATION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 3F CASE NO. 1138

SUNRAY MID-CONTINENT OIL CO
BISTI LOWER GALLUP OIL POOL
Portion of
Township 25 N.R. 11 W. N.M.P.M.U.S.A.S.R.
County San Juan State New Mexico

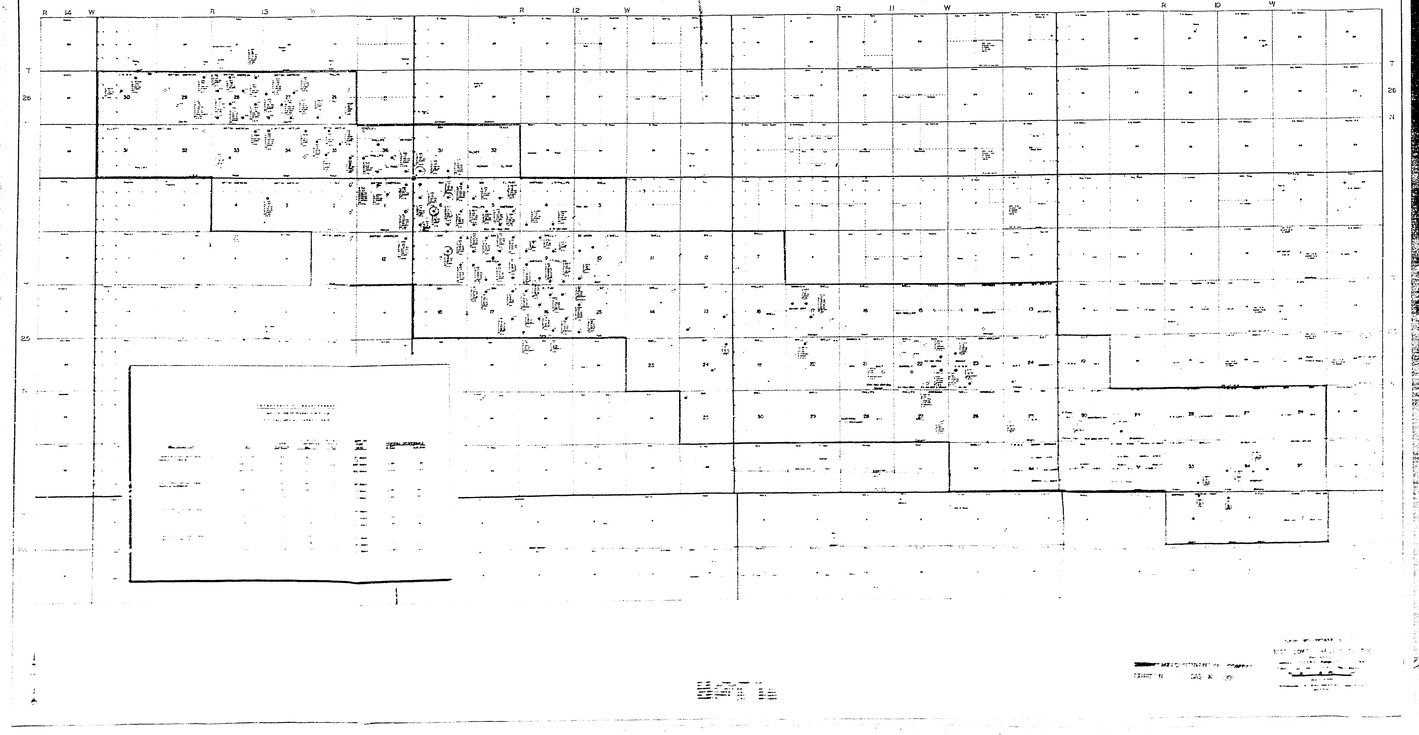


SINCLAIR OIL & GAS COMPANY
PRODUCTION DEPT. DENVER, COLORADO
ENGINEERING SECTION

BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
STRUCTURAL MAP
DATUM: TOP OF LOWER GALLUP FORMATION
CONTOUR INTERVAL 20'

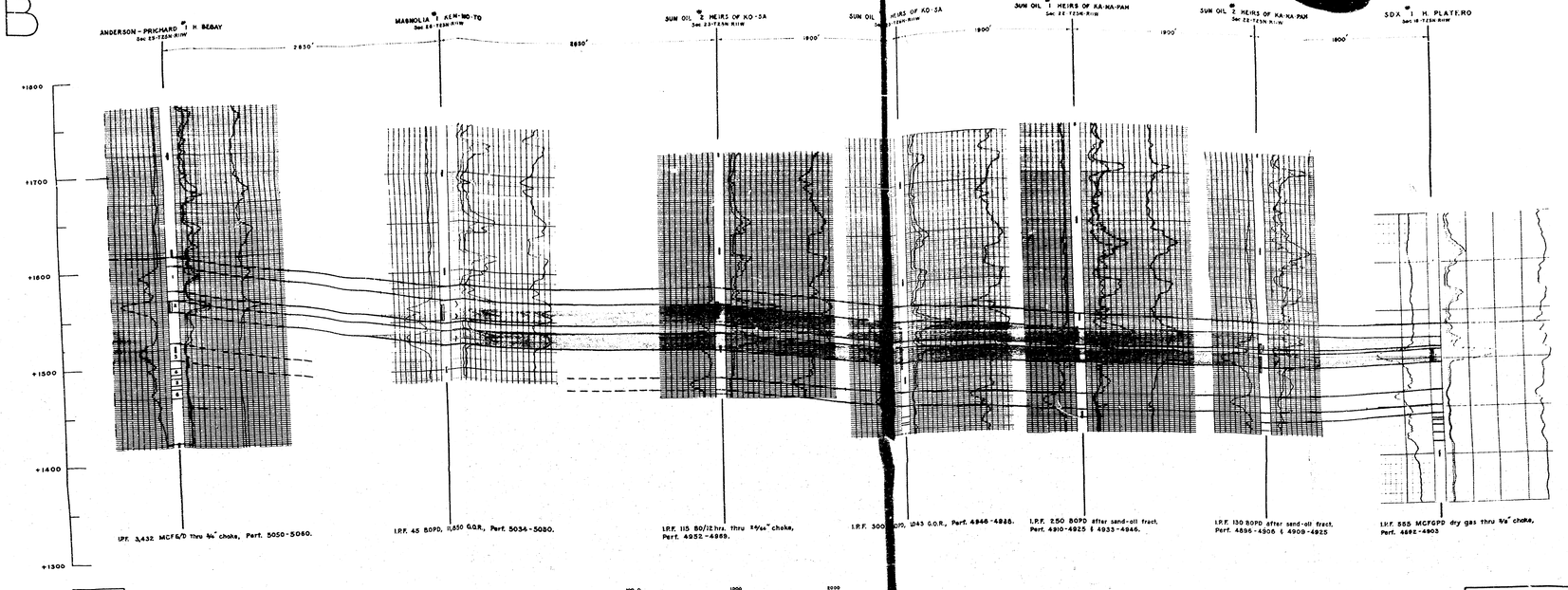
DATE: DEC. 4, 1957 | SCALE: 1" = 4000'
APPROVED | DRAWN BY R.A.E. | FILE NO. B-2

Ex. 1



Sunray Mid-Continent Oil Co.
Ex. 1-B
Proration Hearing
Case No. 1138
Bisti Field San Juan Co. N.M.

B




SINCLAIR OIL & GAS COMPANY
PRODUCTION DEPT
DENVER, COLORADO
ENGINEERING SECTION

# BISTI LOWER GALLUP OIL POOL

SAN JUAN COUNTY, NEW MEXICO

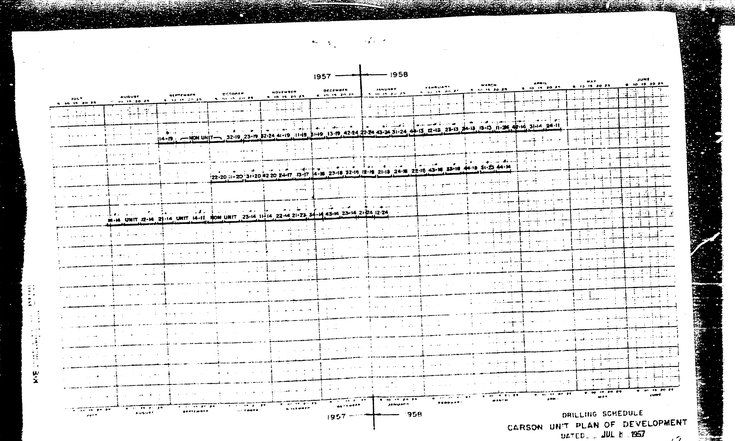
## SE-NW ELECTRIC LOG CROSS SECTION

## CROSS SECTION B-B'

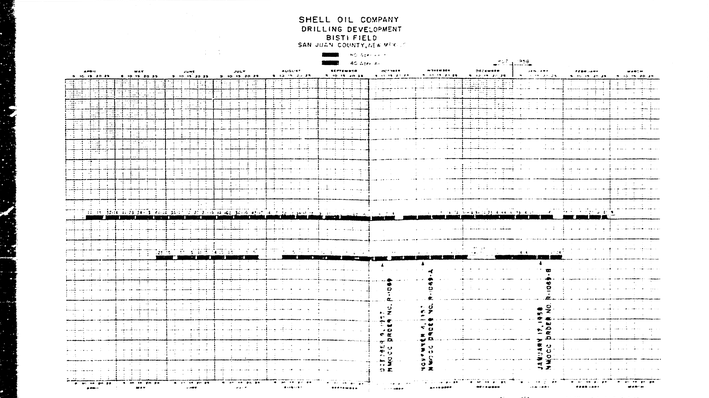
| DATE: DEC. 4, 1957 | | SCALE: AS SHOWN |
|---|---|---|
| APPROVED | DRAWN BY R.A.E. | FILE NO. |

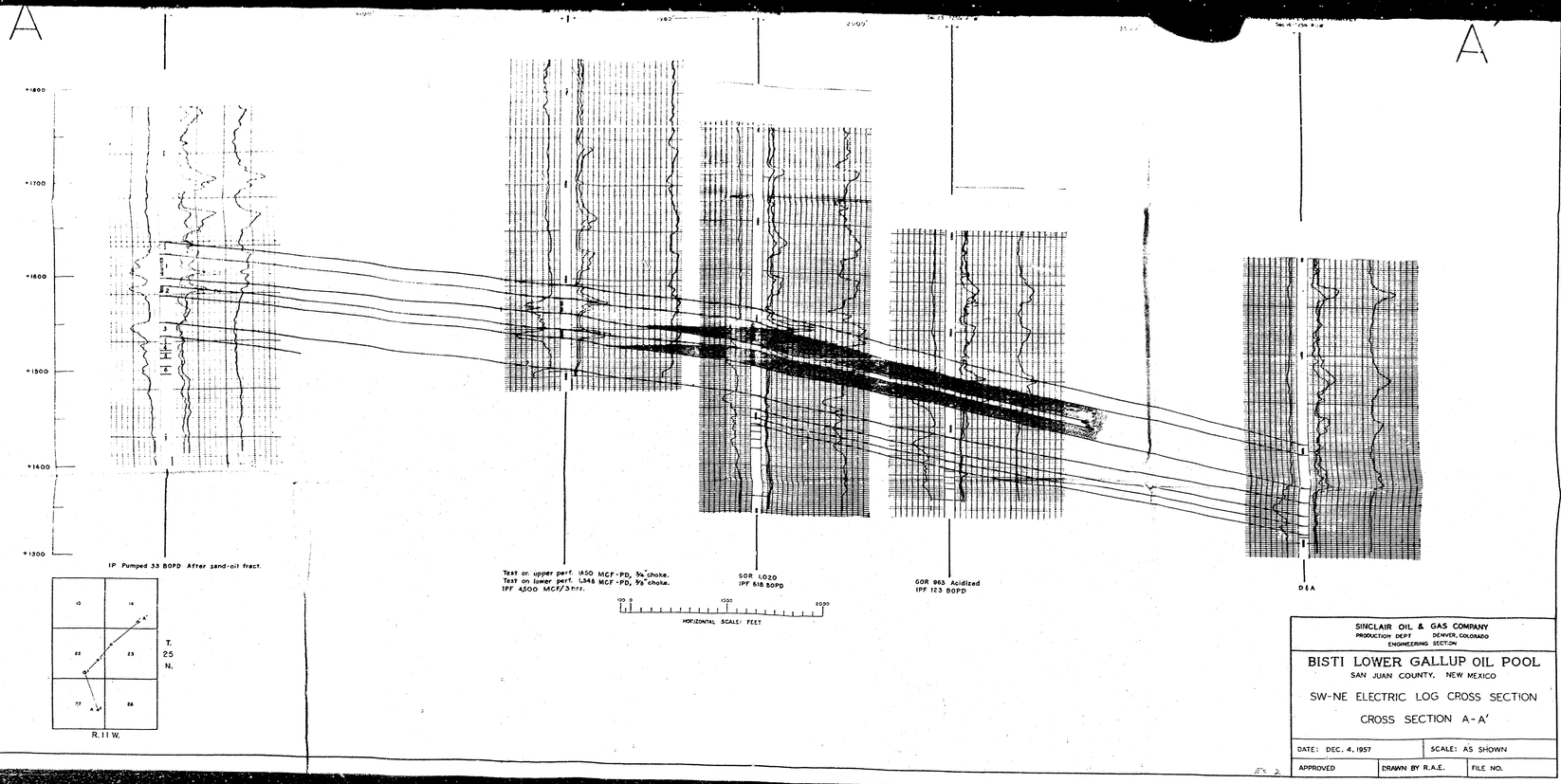
B'






DRILLING SCHEDULE
CARSON UNIT PLAN OF DEVELOPMENT
DATED JUL 8 1957


SHELL OIL COMPANY
DRILLING DEVELOPMENT
BISTI FIELD
SAN JUAN COUNTY, N.M.
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST




SINCLAIR OIL & GAS COMPANY
PRODUCTION DEPT DENVER, COLORADO
ENGINEERING SECTION

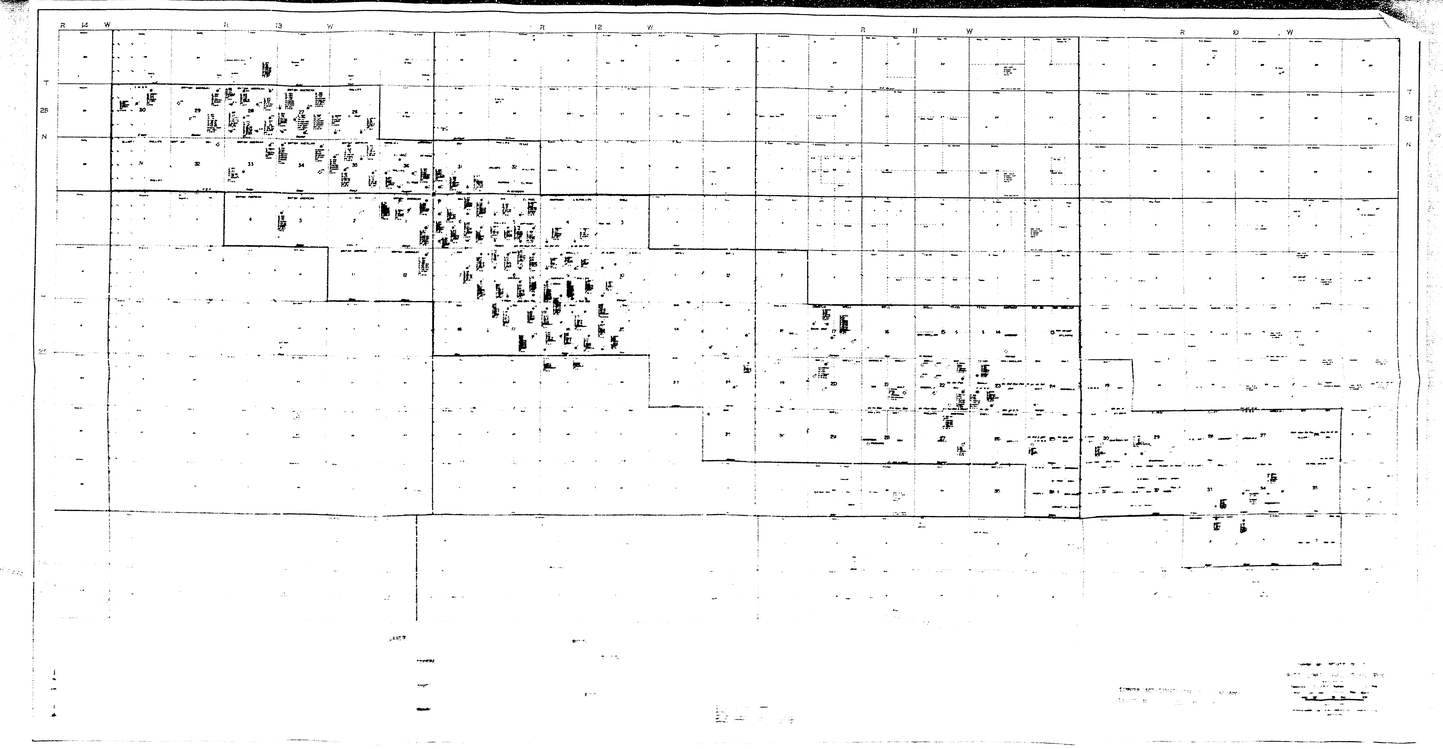
# BISTI LOWER GALLUP OIL POOL

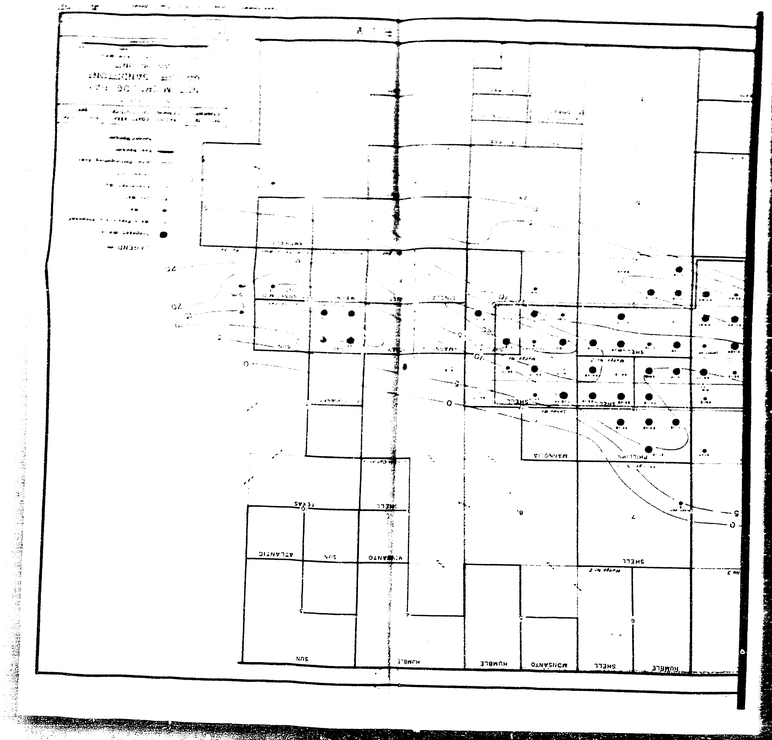
SAN JUAN COUNTY, NEW MEXICO

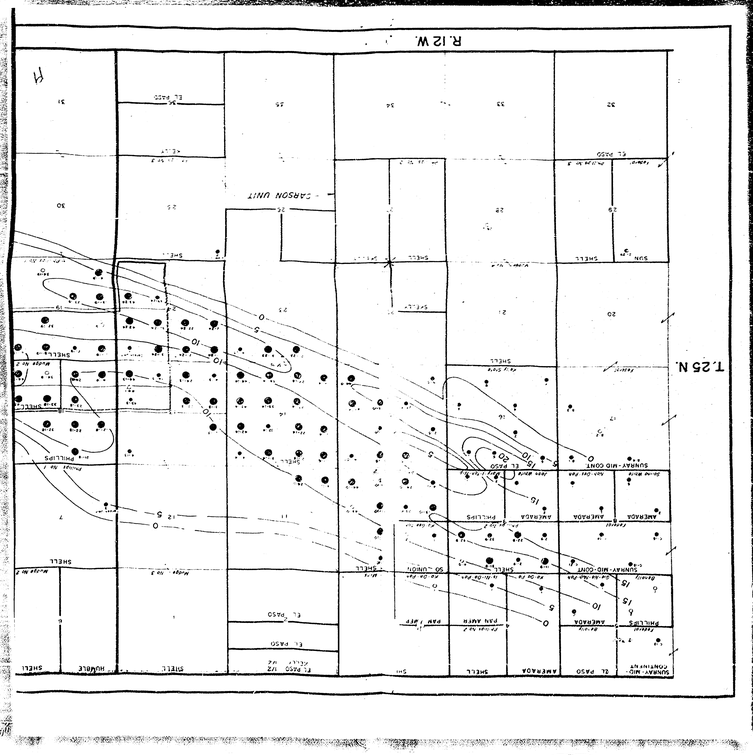
SW-NE ELECTRIC LOG CROSS SECTION

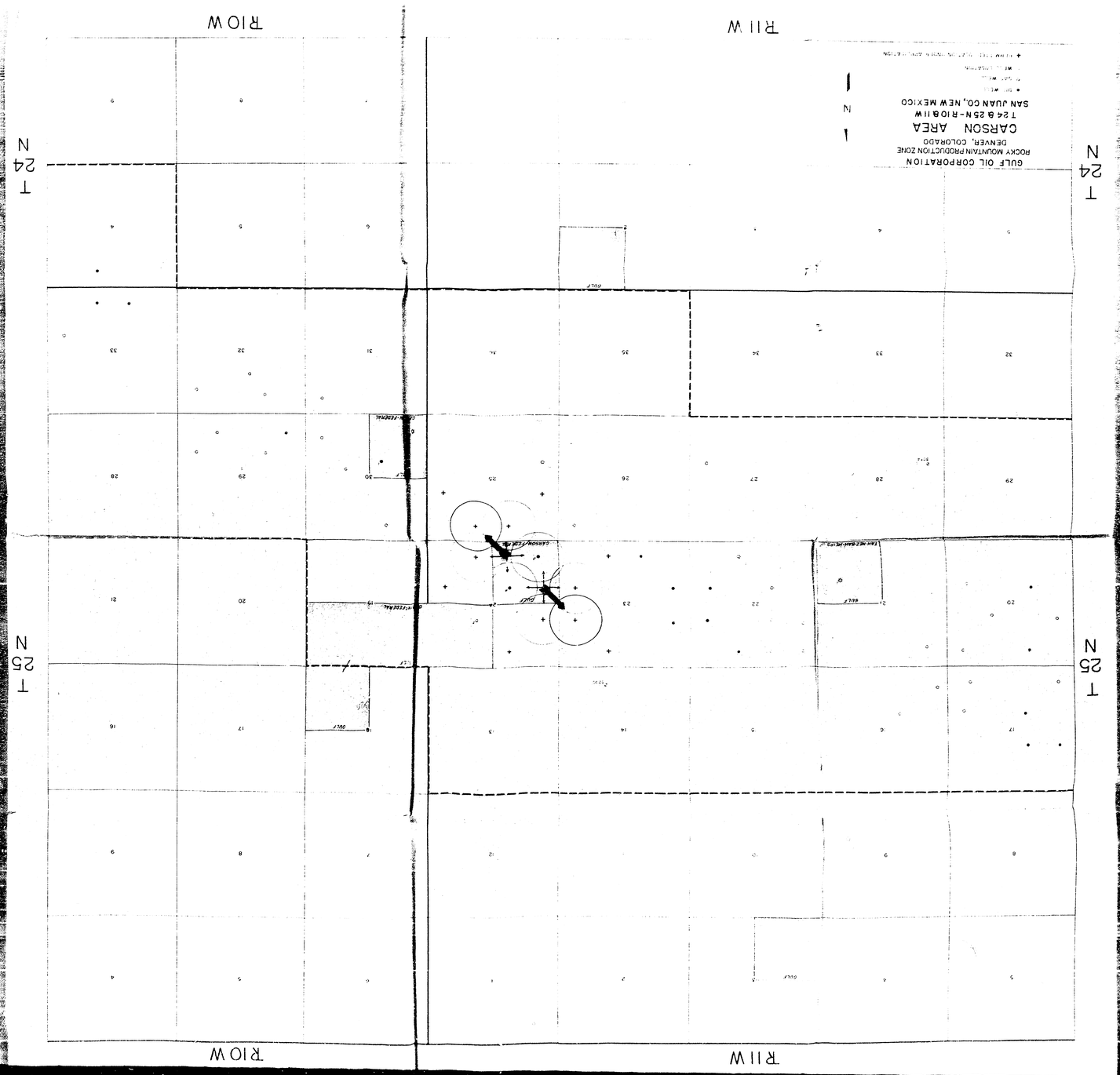
CROSS SECTION A-A'

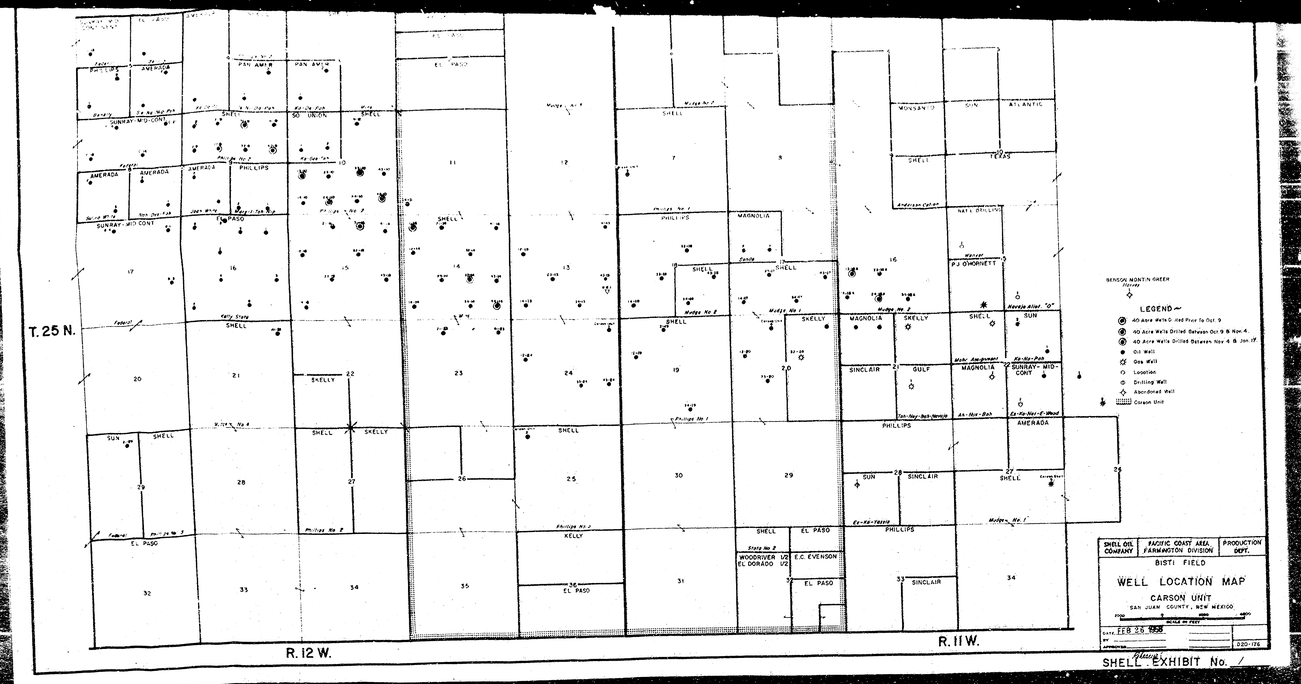
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|---|---|
| APPROVED | DRAWN BY R.A.E. FILE NO. |



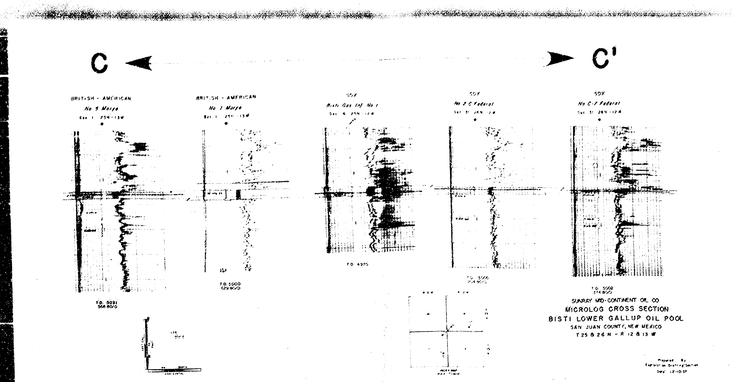


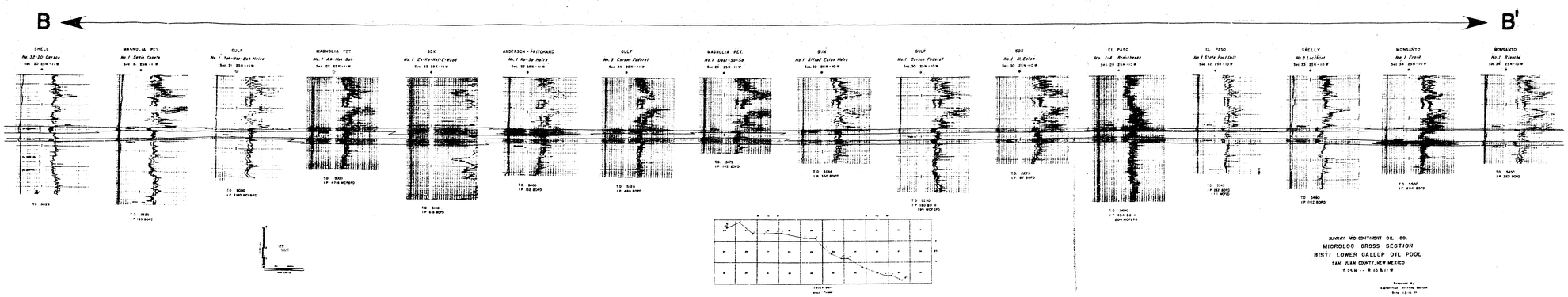

R.12 W.
T.25 N.
CARSON UNIT

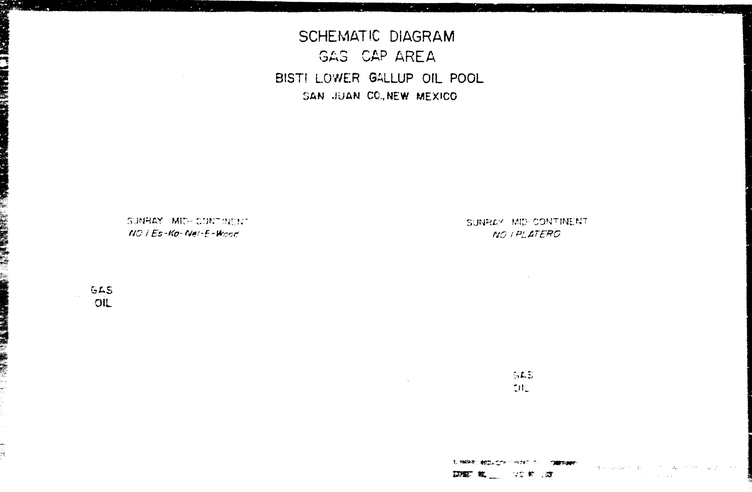

R10W
R11W
T24N
T25N
GULF OIL CORPORATION
ROCKY MOUNTAIN PRODUCTION ZONE
DENVER, COLORADO
CARSON AREA
T 24 & 25 N - R 10 & 11 W
SAN JUAN CO., NEW MEXICO

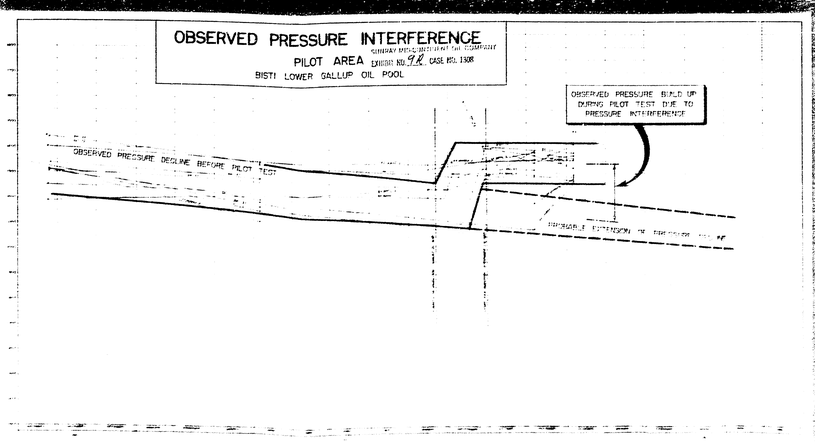


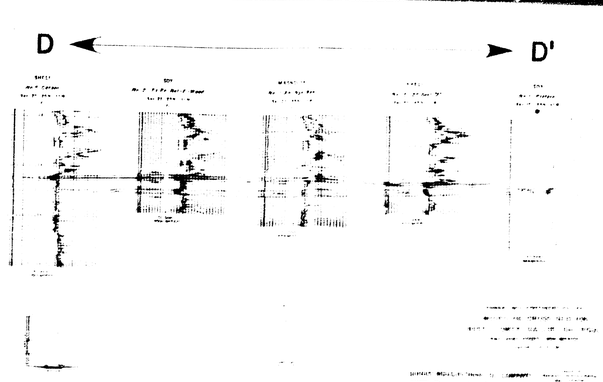

SHELL EXHIBIT No. 1

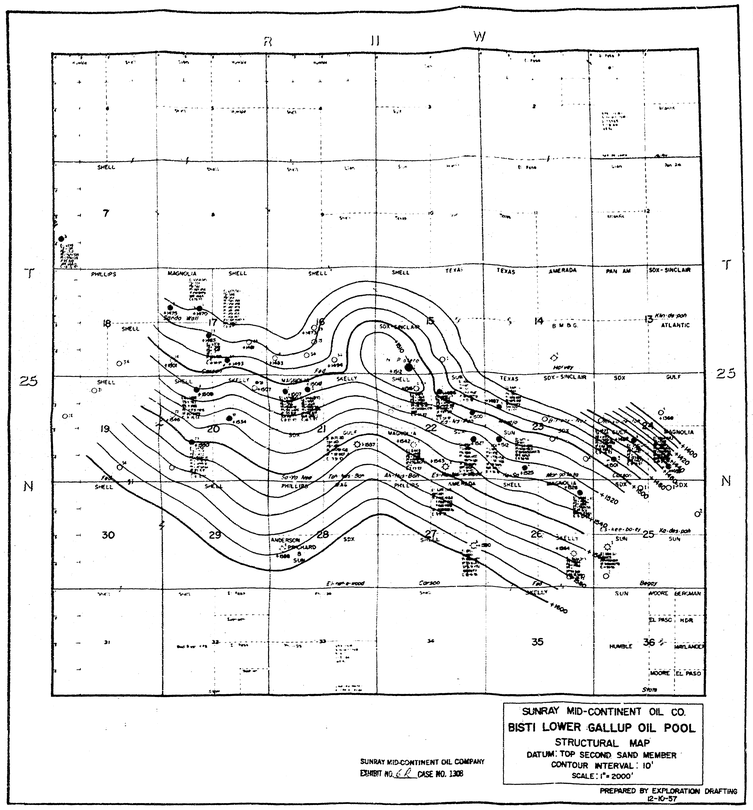


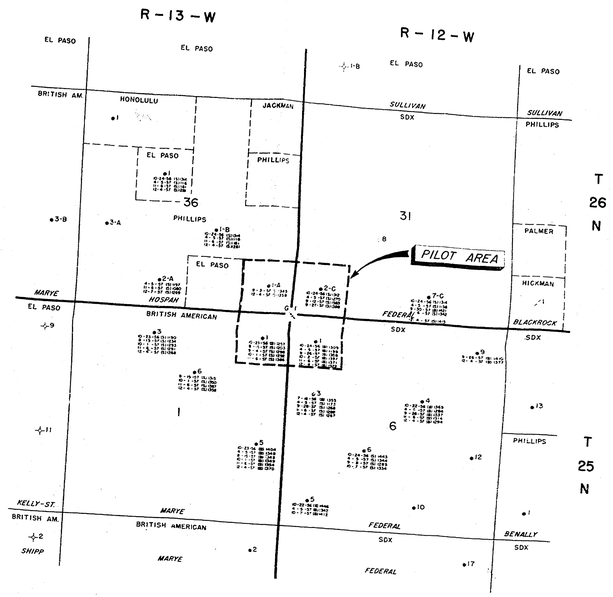






SUNRAY MID-CONTINENT OIL CO.
BISTI LOWER GALLUP OIL POOL
STRUCTURAL MAP
DATUM: TOP SECOND SAND MEMBER
CONTOUR INTERVAL: 10'
SCALE: 1" = 2000'

PREPARED BY EXPLORATION DRAFTING
12-10-57

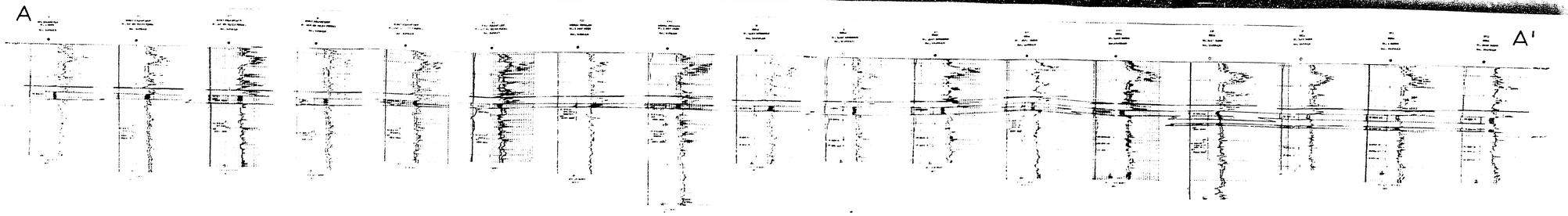
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 2 CASE NO. 1308




SUNRAY MID-CONTINENT OIL CO.
PILOT AREA MAP
BISTI LOWER GALLUP OIL POOL
SAN JUAN CO., NEW MEXICO

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 2-B CASE NO. 1308

PREPARED BY EXPLORATION DRAFTING SECTION
2-10-57




SUNRAY MID-CONTINENT OIL COMPANY
NW - SE MICROLOG CROSS-SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
EXHIBIT NO. 2-C CASE NO. 1308

R11W

R10W

T 25 N

T 24 N

GULF

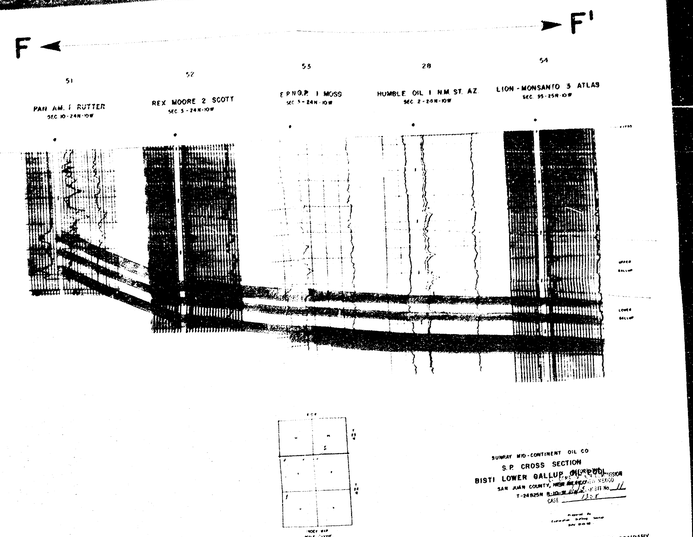
TAH-MEZ-BAH-HEIRS

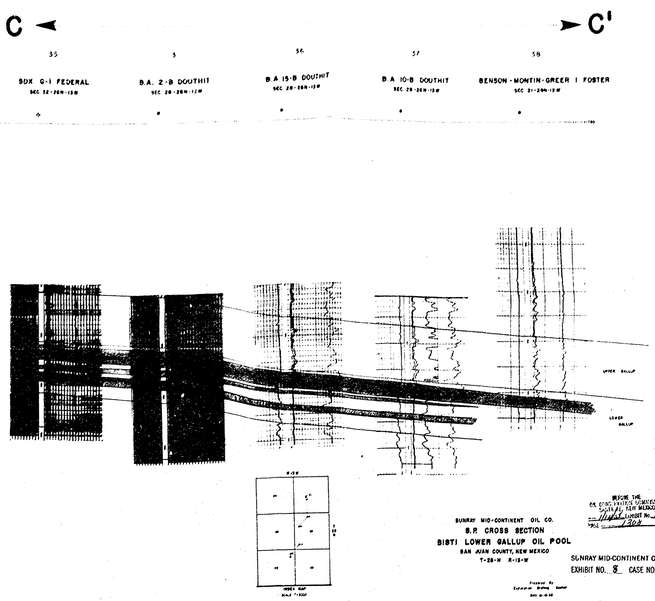
CARSON FEDERAL

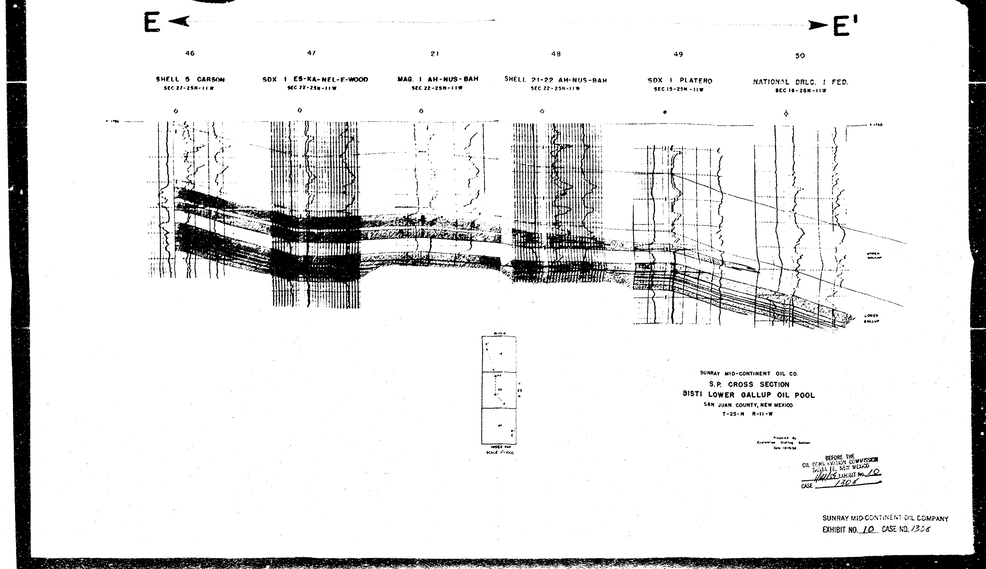
GULF

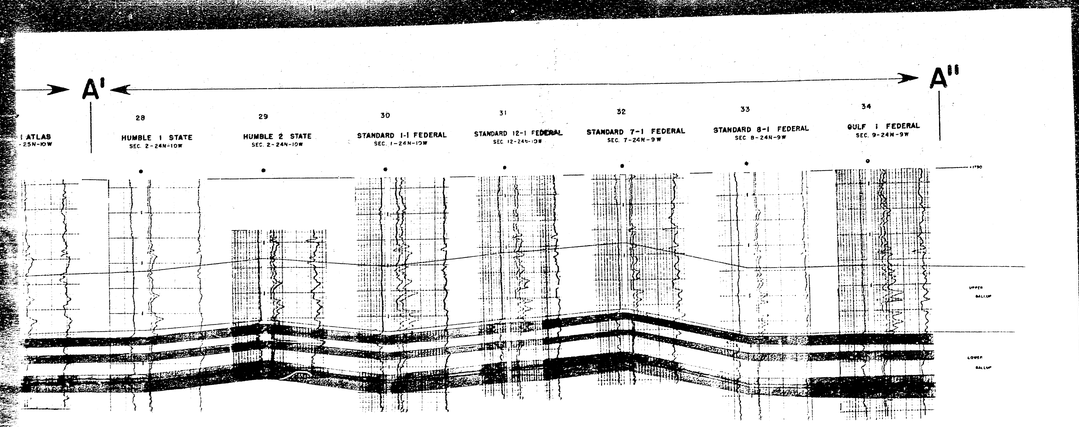
GULF

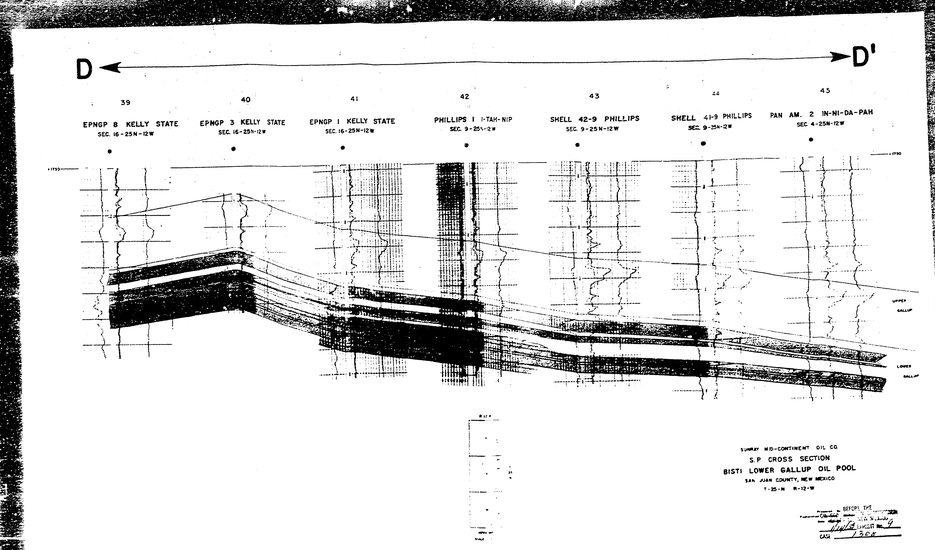
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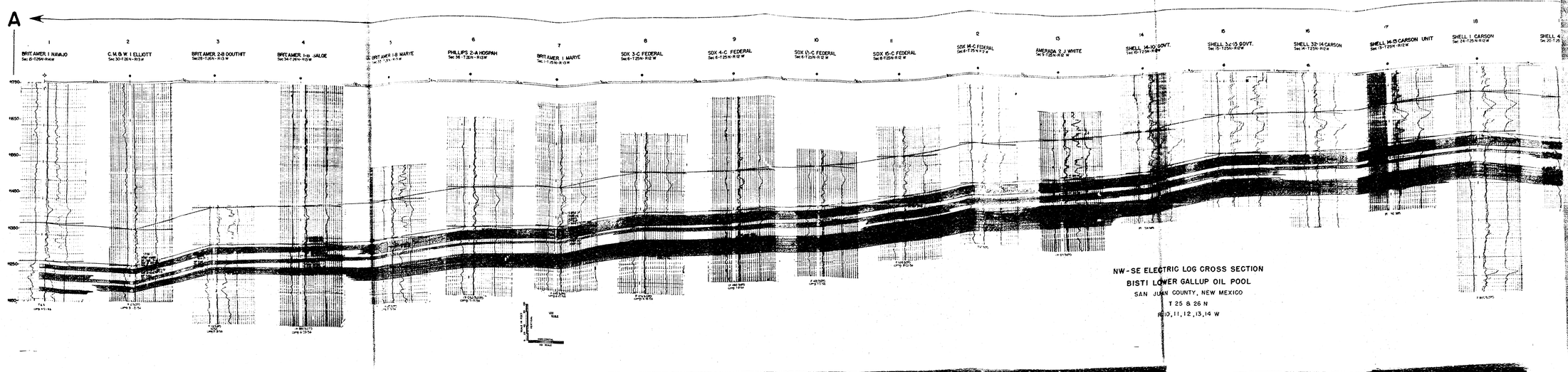

F
F'
51
PAN AM. 1 RUTTER
SEC. 10-24N-10W
52
REX MOORE 2 SCOTT
SEC. 3-24N-10W
53
EPNGP 1 MOSS
SEC. 1-24N-10W
28
HUMBLE OIL 1 NM ST AZ
SEC. 2-20N-10W
54
LION-MONSANTO 3 ATLAS
SEC. 35-25N-10W
UPPER GALLUP
LOWER GALLUP
INDEX MAP
SUNRAY MID-CONTINENT OIL CO.
S.P. CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T-24&25N R-10&11W
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 11 CASE NO. 1308


C
C'
55
SOX G-1 FEDERAL
SEC. 32-26N-13W
5
B.A. 2-B DOUTHIT
SEC. 28-26N-12W
56
B.A. 15-B DOUTHIT
SEC. 28-26N-12W
57
B.A. 10-B DOUTHIT
SEC. 28-26N-12W
58
BENSON-MONTIN-GREER 1 FOSTER
SEC. 31-26N-12W
UPPER GALLUP
LOWER GALLUP
INDEX MAP
SUNRAY MID-CONTINENT OIL CO.
B.P. CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T-26-N R-12-W
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 8 CASE NO. 1306

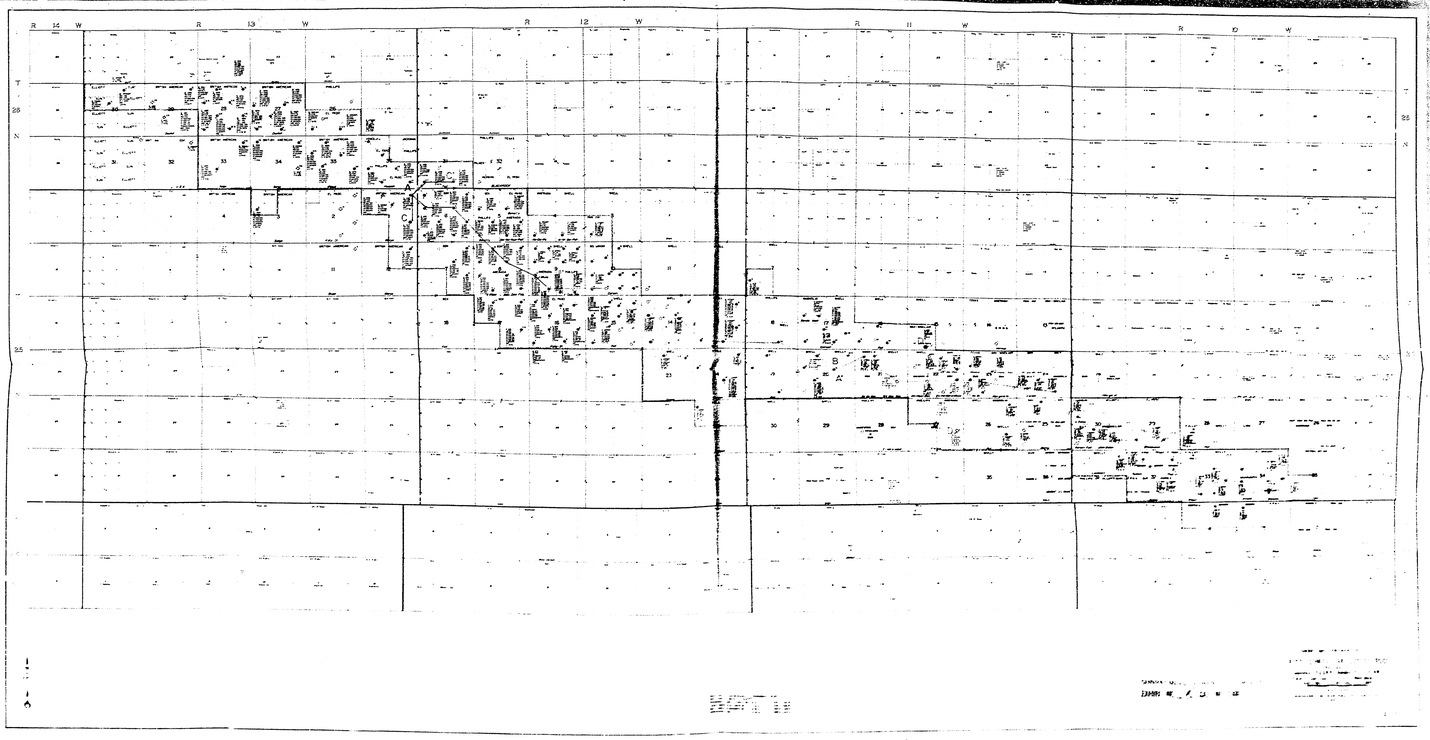

E
E'
46
SHELL 5 CARSON
SEC. 27-25N-11W
47
SOX 1 ES-KA-NEL-E-WOOD
SEC. 29-25N-11W
21
MAG. 1 AH-NUS-BAH
SEC. 22-25N-11W
48
SHELL 21-22 AH-NUS-BAH
SEC. 22-25N-11W
49
SOX 1 PLATERO
SEC. 15-25N-11W
50
NATIONAL DRLG. 1 FED.
SEC. 18-25N-11W
UPPER GALLUP
LOWER GALLUP
INDEX MAP
SUNRAY MID-CONTINENT OIL CO.
S.P. CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T-25-N R-11-W
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 10 CASE NO. 1306

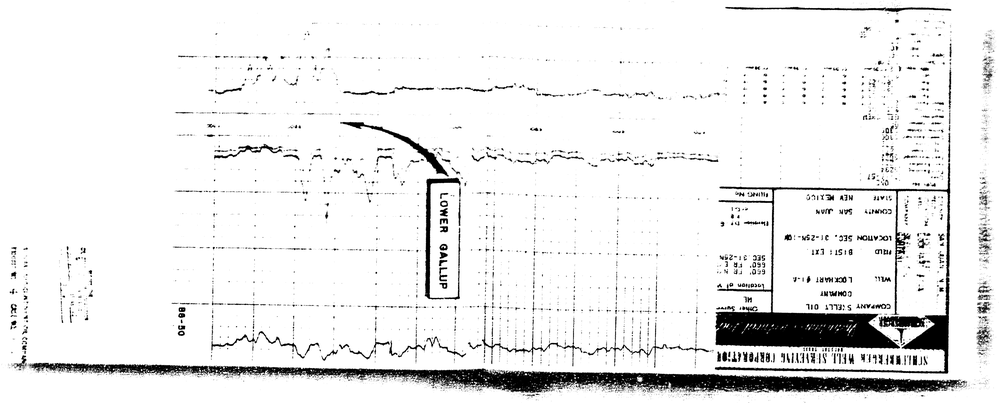

A'
A''
I ATLAS
25N-10W
28
HUMBLE 1 STATE
SEC. 2-24N-10W
29
HUMBLE 2 STATE
SEC. 2-24N-10W
30
STANDARD 1-1 FEDERAL
SEC. 1-24N-10W
31
STANDARD 12-1 FEDERAL
SEC. 12-24N-10W
32
STANDARD 7-1 FEDERAL
SEC. 7-24N-9W
33
STANDARD 8-1 FEDERAL
SEC. 8-24N-9W
34
GULF 1 FEDERAL
SEC. 9-24N-9W
UPPER GALLUP
LOWER GALLUP
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 7 CASE NO. 1308

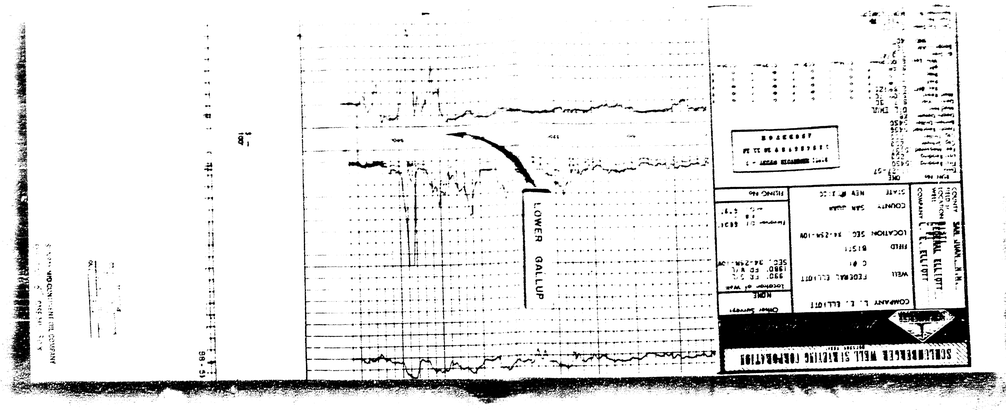

D
D'
39
EPNGP 8 KELLY STATE
SEC. 16-25N-12W
40
EPNGP 3 KELLY STATE
SEC. 16-25N-12W
41
EPNGP 1 KELLY STATE
SEC. 16-25N-12W
42
PHILLIPS 1 T-TAH-NIP
SEC. 9-25N-12W
43
SHELL 42-9 PHILLIPS
SEC. 9-25N-12W
44
SHELL 41-9 PHILLIPS
SEC. 9-25N-12W
45
PAN AM. 2 IN-NI-DA-PAH
SEC. 4-25N-12W
UPPER GALLUP
LOWER GALLUP
SUNRAY MID-CONTINENT OIL CO.
S.P. CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T-25-N R-12-W
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 9 CASE NO. 1308

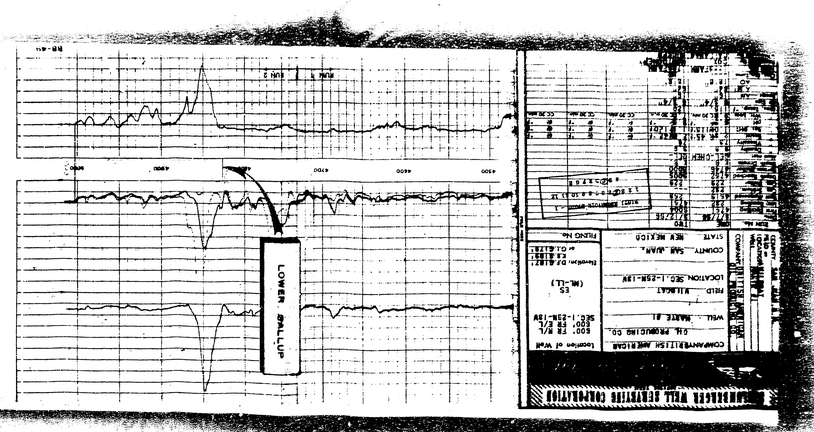


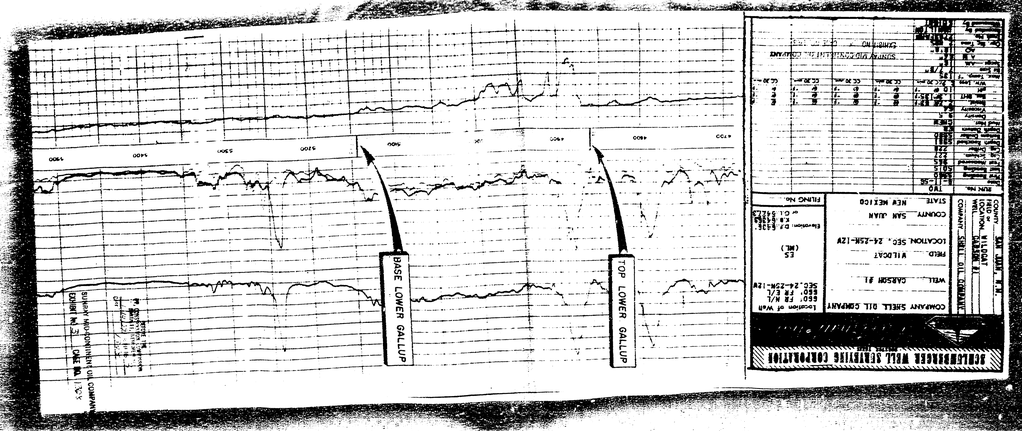

NW-SE ELECTRIC LOG CROSS SECTION
BISTI LOWER GALLUP OIL POOL
SAN JUAN COUNTY, NEW MEXICO
T 25 & 26 N
R10, 11, 12, 13, 14 W

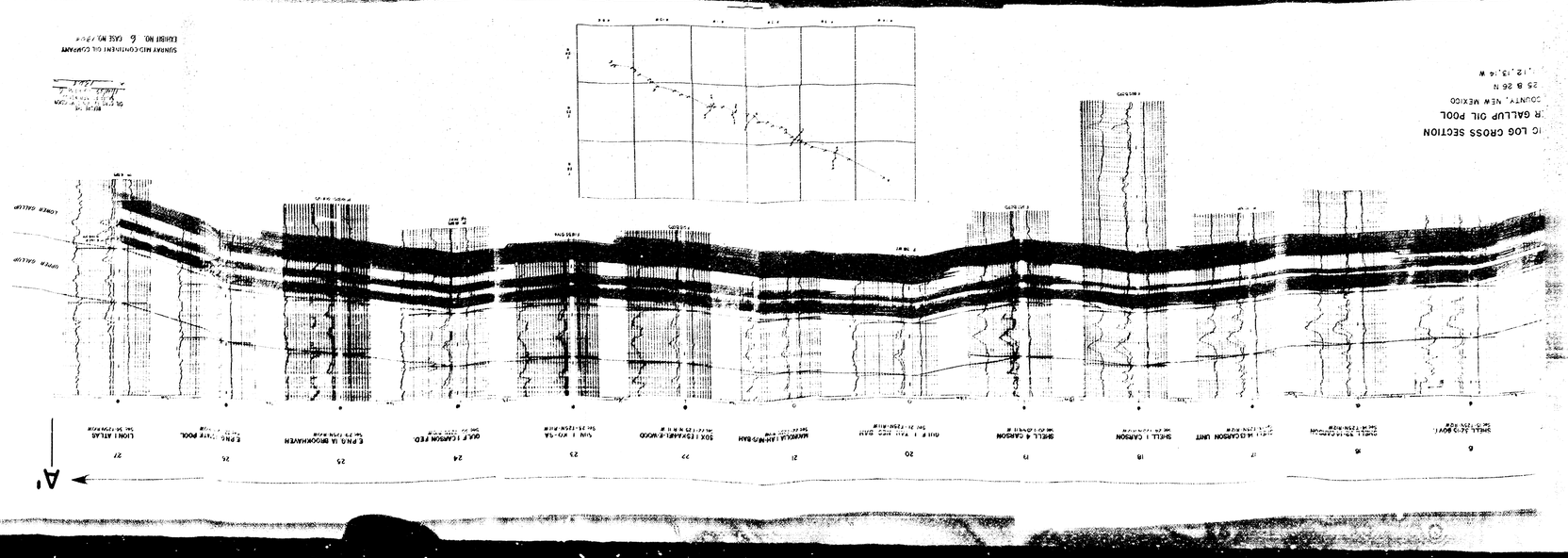


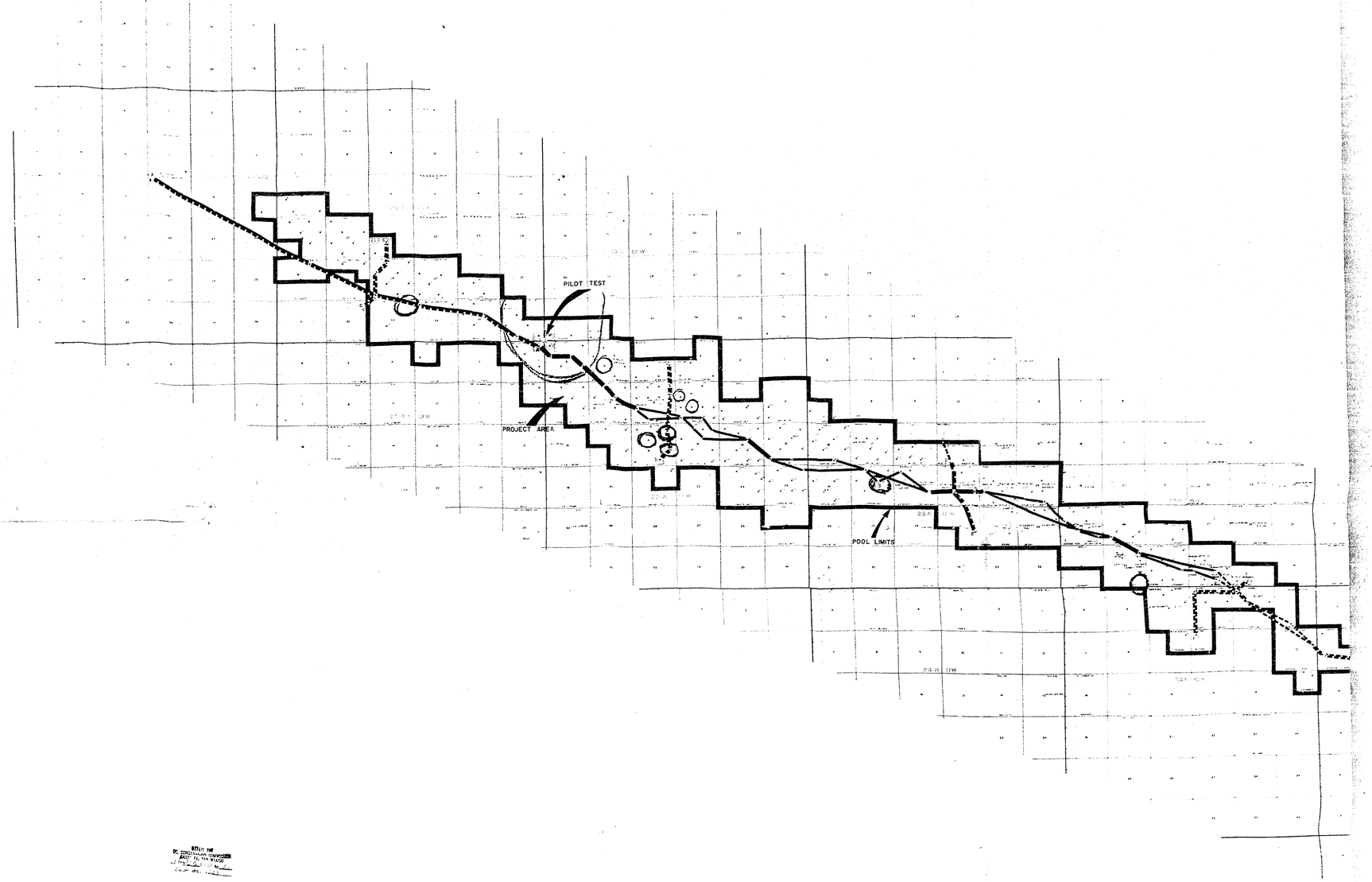

LOWER GALLUP
SCHLUMBERGER WELL SURVEYING CORPORATION


LOWER GALLUP
SCHLUMBERGER WELL SURVEYING CORPORATION


LOWER GALLUP
SCHLUMBERGER WELL SURVEYING CORPORATION


BASE LOWER GALLUP
TOP LOWER GALLUP
SCHLUMBERGER WELL SURVEYING CORPORATION


A
A'




BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
CASE NO.

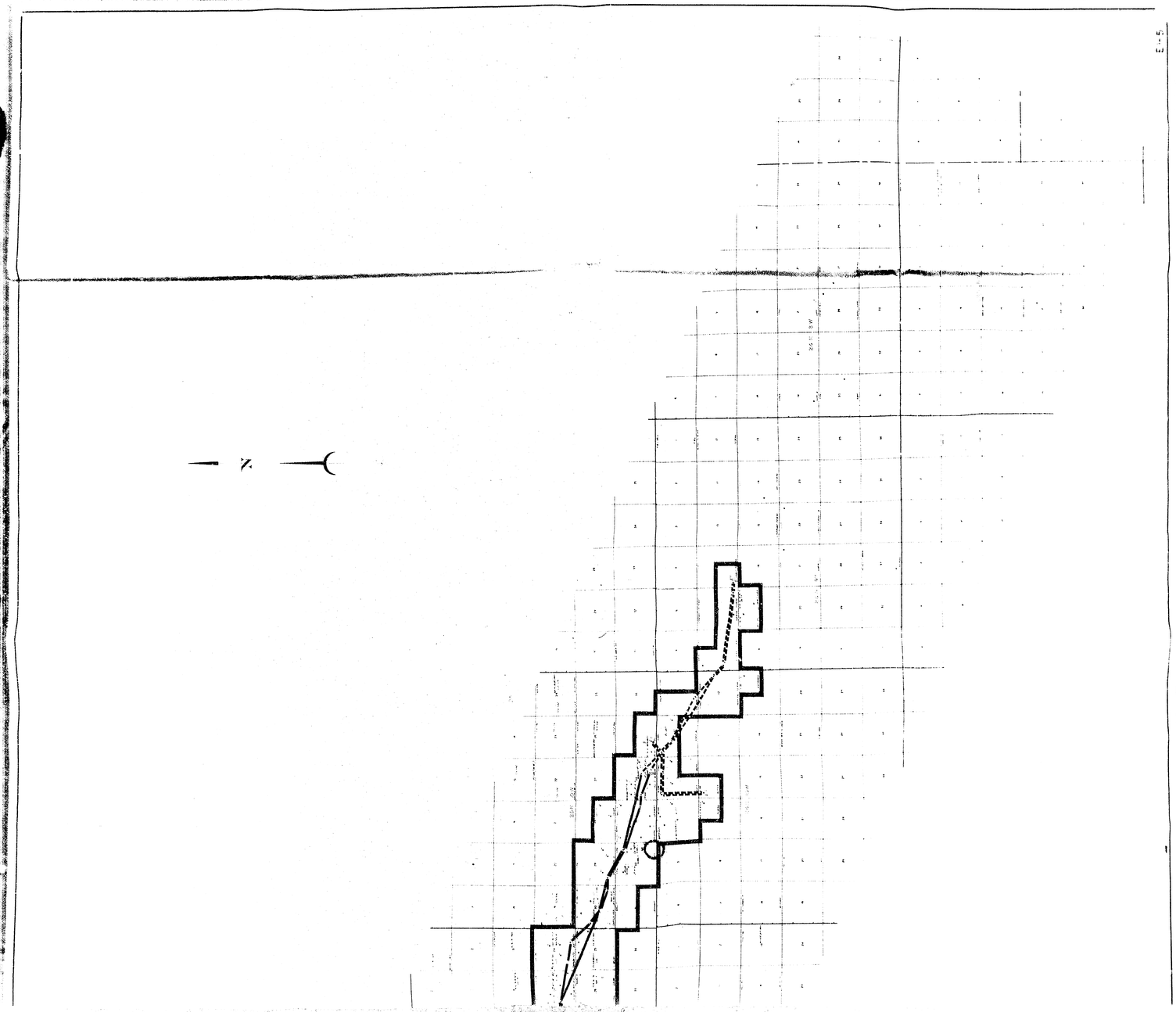
SUNRAY MID-CONTINENT OIL CO

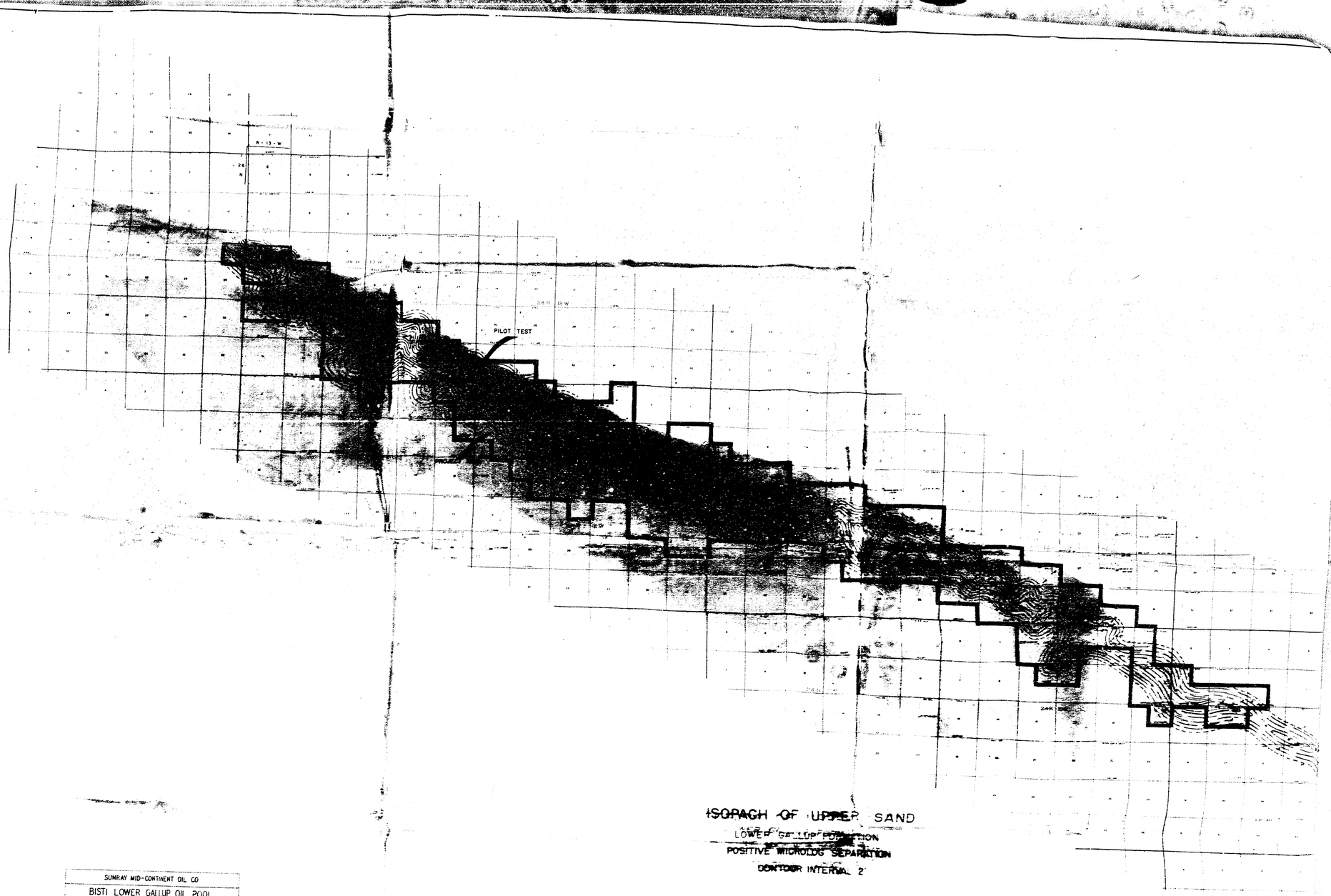
EAST LOWER GALLUP OIL POOL
Portions of
County San Juan State New Mexico

SCALE = FEET

PREPARED BY EXPLORATION DEPARTMENT
DIVISION

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 1 CASE NO.






ISOPACH OF UPPER SAND

LOWER GALLUP FORMATION

POSITIVE MICROLOG SEPARATION

CONTOUR INTERVAL 2'

SUNRAY MID-CONTINENT OIL CO

BISTI LOWER GALLUP OIL POOL

Portions of

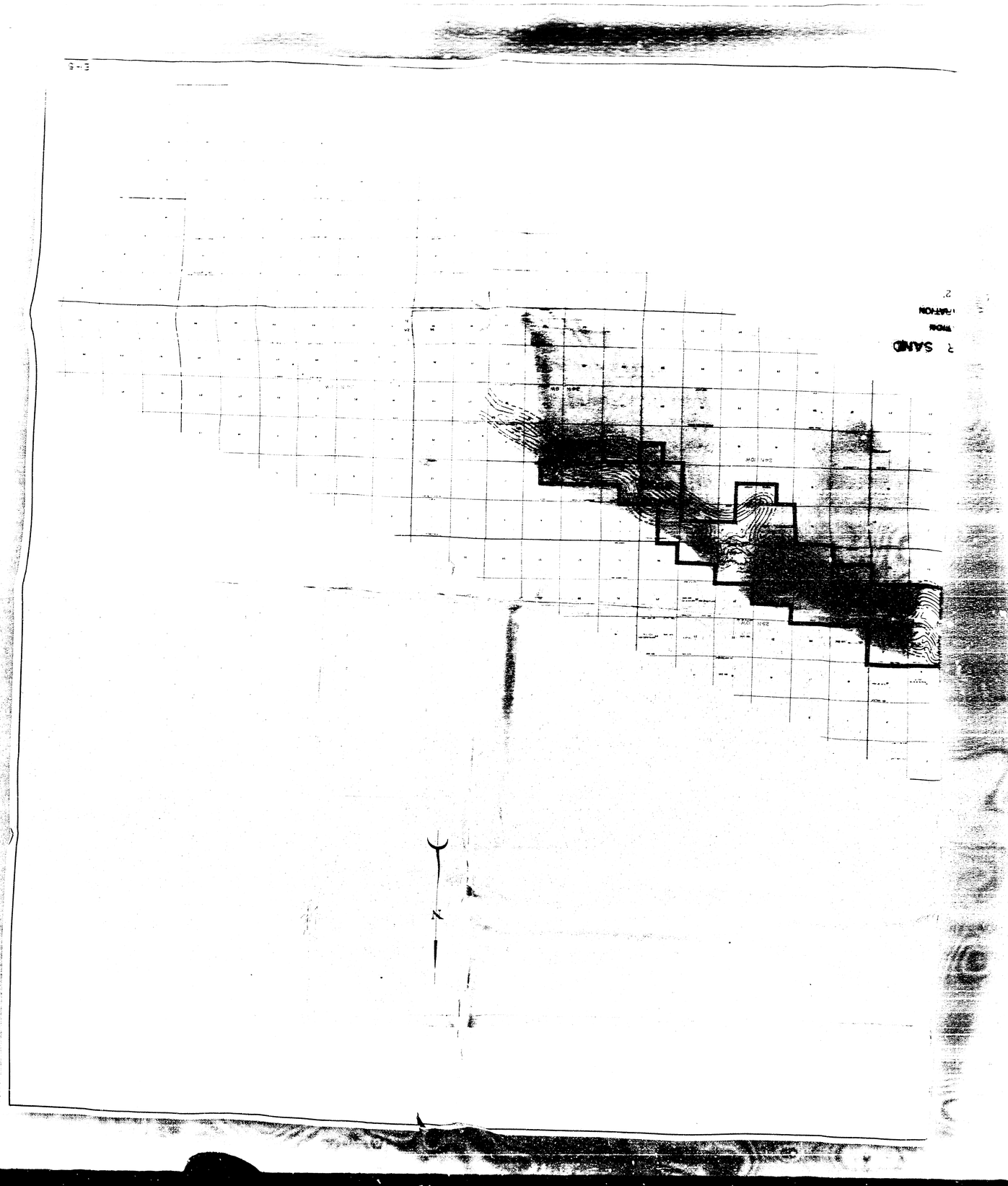
County San Juan State New Mexico

SCALE IN FEET

PREPARED BY EXPLORATION DRAFTING SECTION

SUNRAY MID-CONTINENT OIL COMPANY

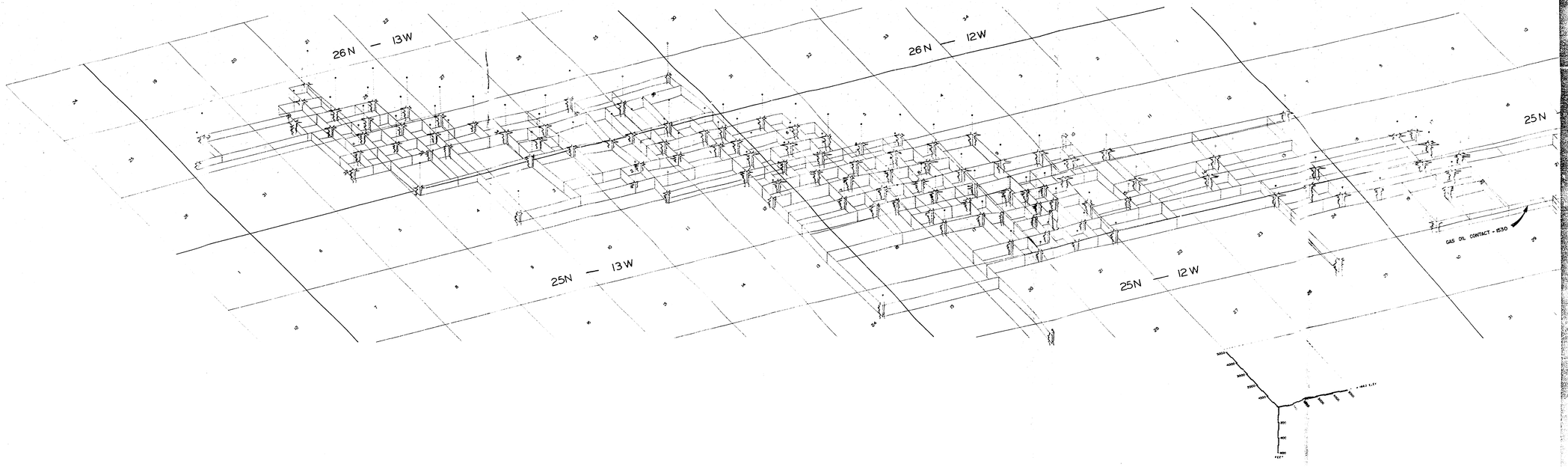
EXHIBIT NO. 2 CASE NO.



# THREE DIMENSIONAL DRAWING

## BISTI LOWER GALLUP OIL POOL

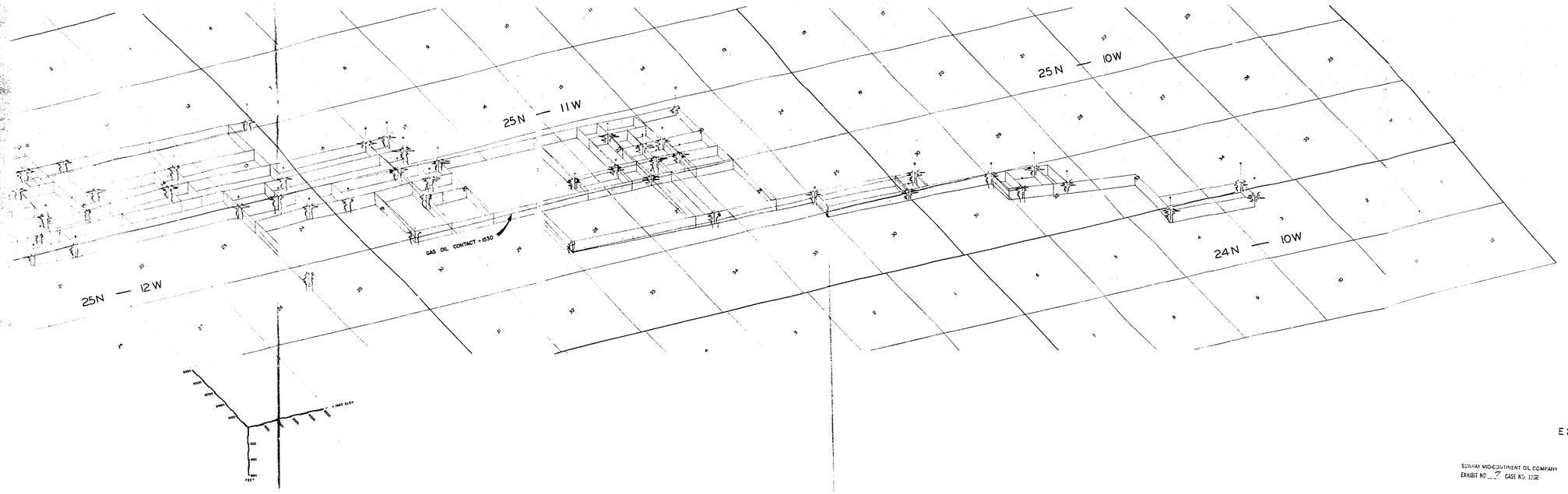
SAN JUAN COUNTY, NEW MEXICO



# THREE DIMENSIONAL DRAWING

## BISTI LOWER GALLUP OIL POOL

SAN JUAN COUNTY, NEW MEXICO




E2 – 58

SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. 7 CASE NO. 1338