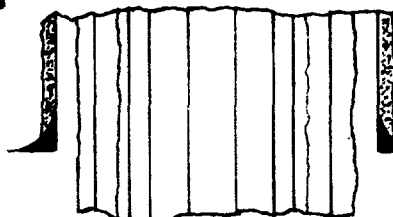
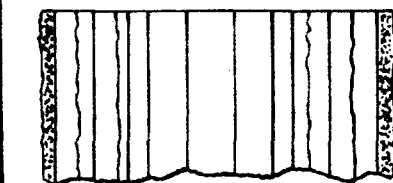


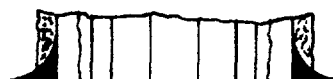
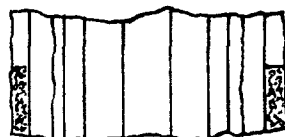
AMERADA PETROLEUM CORPORATION  
 PROPOSED DUAL COMPLETION FOR L. W. WARD #2  
 Bronco (Siluro-Devonian) and Bronco (Miss.) Fields - Section 11, T13S, R38E

Case 1649  
 Exhibit No 3

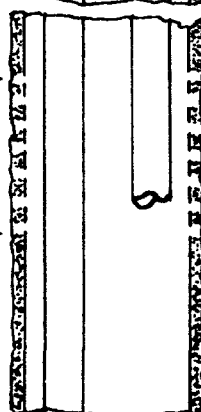
BEFORE EXAMINER NUTTER  
 OIL CONSERVATION COMMISSION  
 EXHIBIT NO. 3  
 CASE NO. 1649



13-3/8" casing set at 319' ✓  
 Cement circulated



8-5/8" casing set at 4533' ✓  
 Top cement 2276'

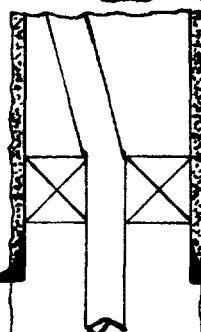


Name: Bronco (Miss.)  
 Completion this zone: Oil

Perforated: 10,939' to 10,964'

This zone produced through 2-1/16" CS Hydril (ID 1.750)

*diff 2000 ft*



Baker Model "D" Packer set at approximately 11,000'

5-1/2" csg. set @ 11,650' Top CMT 7185' ✓  
 Open Hole: 11,650' to 11,871'

Name: Bronco (Siluro-Devonian)  
 Completion this zone: Oil

This zone produced through 2-1/16" CS Hydril (ID 1.750)

Total Depth: 11,871'

Case 1649  
Exhibit No 1

R 38 E

TEXAS CO.

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

*Appl* EXHIBIT NO.

CASE NO. *1649*

NEW MEXICO

TEXAS

N

AMERADA

SINCLAIR

BEFORE EXAMINER NUTTER  
OIL COM  
CASE

BARNES

AMERADA

U.S.A.

FEDERAL "B"

SINCLAIR

AMERADA

*GOR 1528  
42° grow.  
perf 109975  
WEENS 11018*

AMERADA

*BHP 4207  
@ - 7150  
157 BPD*

T 13 S

BARNES & GOLDEN

L. W. WARD

AMERADA

AMERADA

AMERADA

WEEMS

LINAM

SCHENCK

LEGEND

- WOLFCAMP WELL
- MISSISSIPPIAN WELL
- DEVONIAN WELL

14

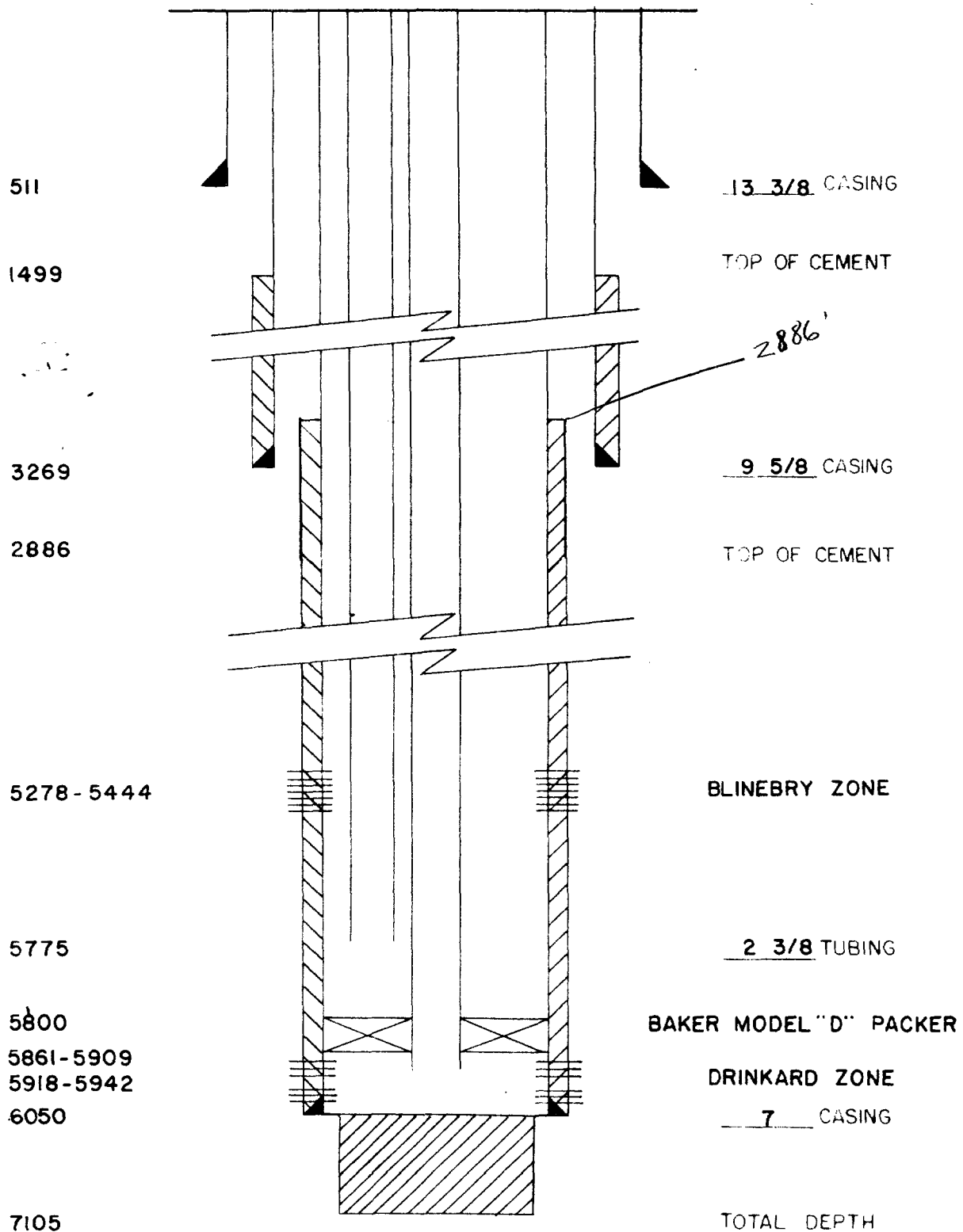
FEDERAL "A"

BRONCO FIELD

YOAKUM CO., TEXAS - LEA CO., NEW MEXICO

SCALE: 1 INCH = 1000 FEET

UNIT OUTLINE

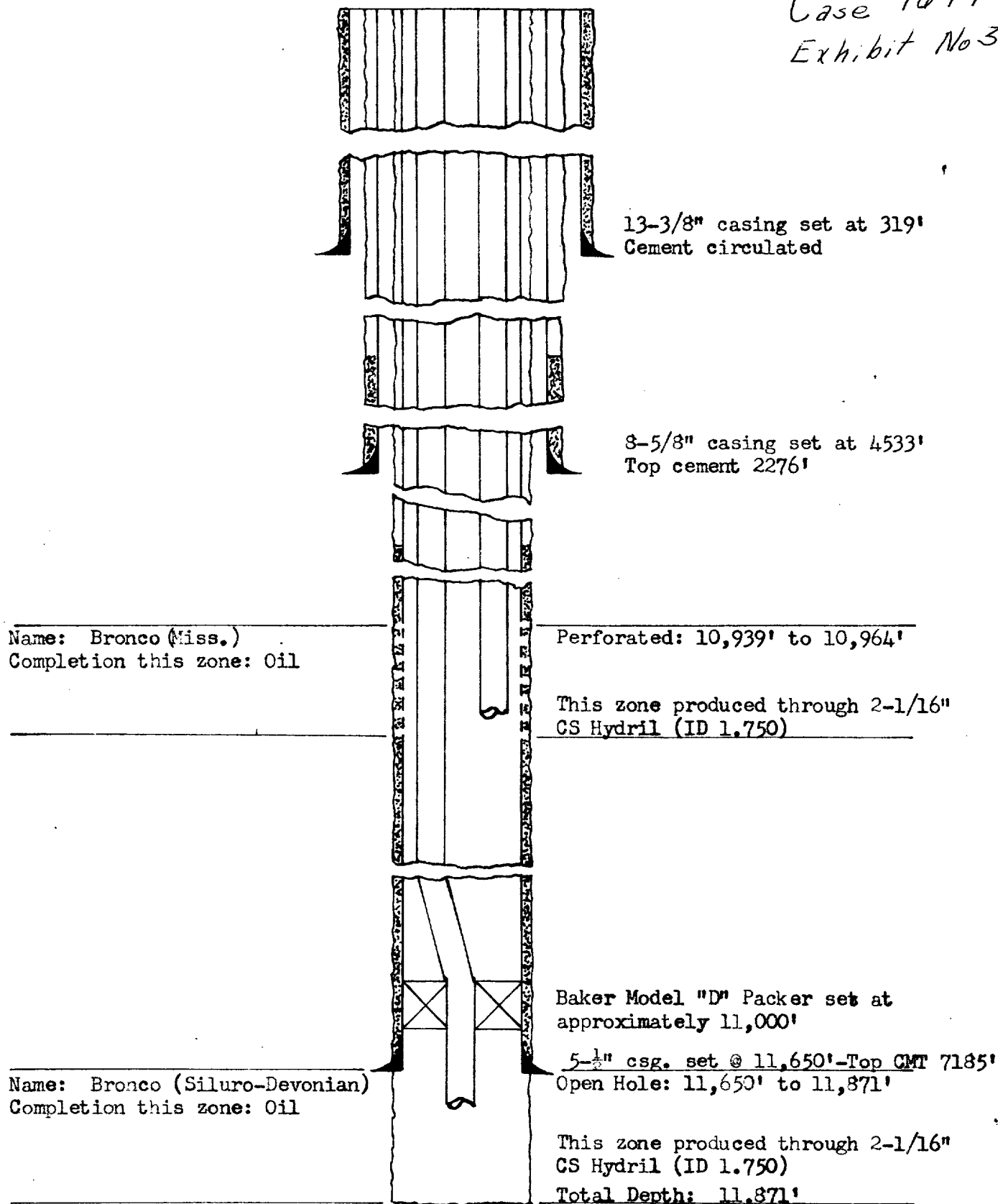


AMERADA PETROLEUM CORPORATION  
OIL - OIL DUAL  
IDA WIMBERLEY NO. 9

Case No. 1646  
Exhibit No. 2

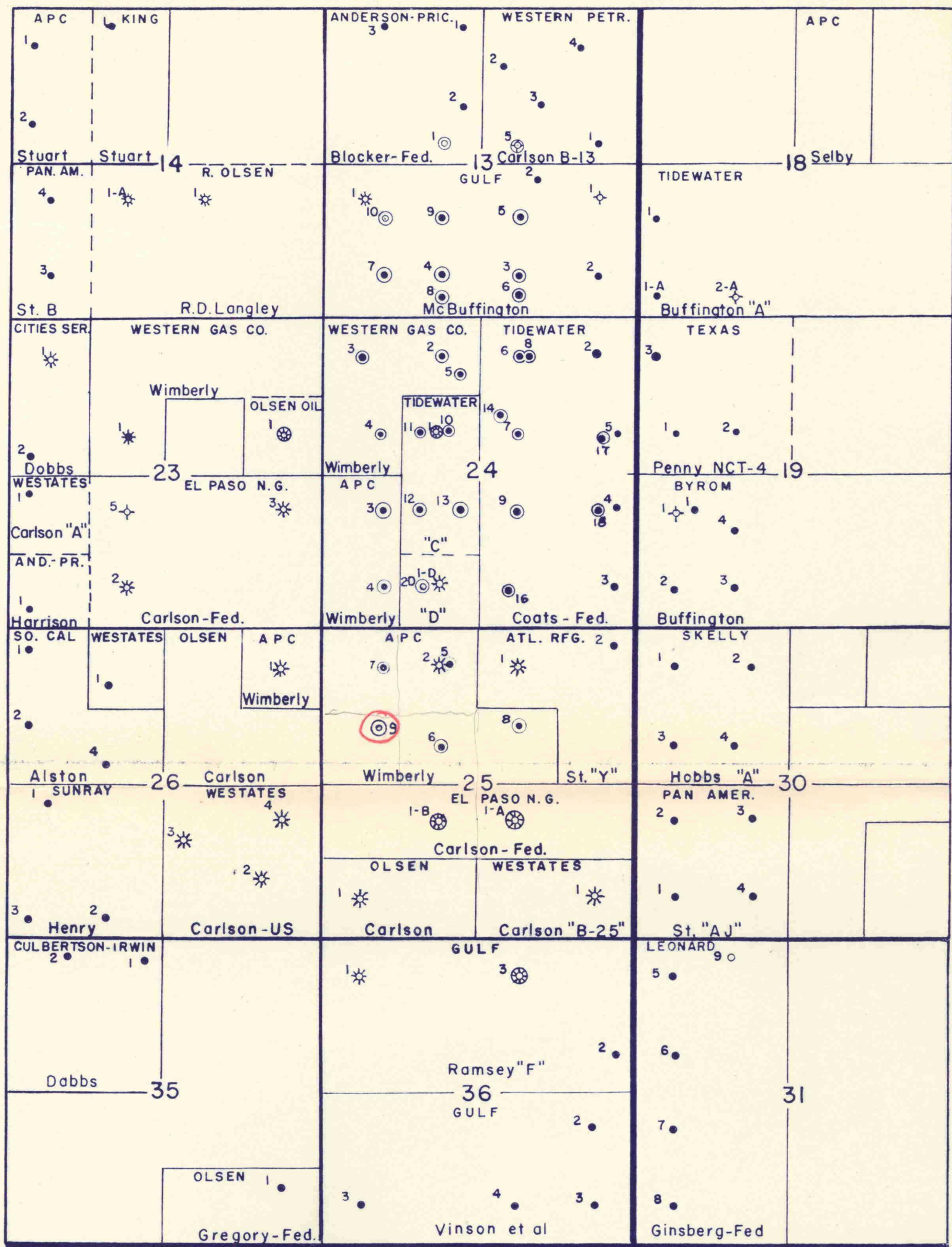
AMERADA PETROLEUM CORPORATION  
 PROPOSED DUAL COMPLETION FOR L. W. WARD #2  
 Bronco (Siluro-Devonian) and Bronco (Miss.) Fields - Section 11, T13S, R38E

Case 1649  
 Exhibit No 3



R-37-E

R-38-E

T  
25  
S

JUSTIS AREA

LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

Case No. 1646

Exhibit No. 1

# SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



## Electrical Log

|                                                                                                                    |                                 |                                                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------|
| COUNTY <u>Lea</u><br>FIELD or LOCATION <u>Bronco</u><br>WELL <u>Ward # 2</u><br>COMPANY <u>Amerada Petr. Corp.</u> | COMPANY <u>AMERADA PETR.</u>    | Location of Well                                             |
|                                                                                                                    | <u>CORPORATION</u>              | 1980' f SL                                                   |
|                                                                                                                    | WELL <u>WARD # 2</u>            | 520' f EL                                                    |
|                                                                                                                    | FIELD <u>BRONCO</u>             | Sec. 11-13S-38E                                              |
|                                                                                                                    | LOCATION <u>SEC. 11-13S-38E</u> | <i>Worked</i><br>Case 1649<br>Exhibit No 2<br>ES GRL<br>(ML) |
| COUNTY <u>LEA</u>                                                                                                  | Elevation: D.F. <u>3810</u>     |                                                              |
| STATE <u>NEW MEXICO</u>                                                                                            | <i>W</i> K.B.:<br>or G.L.:      |                                                              |
|                                                                                                                    | FILING No. _____                |                                                              |

|                |                     |             |            |            |            |
|----------------|---------------------|-------------|------------|------------|------------|
| RUN No.        | <u>1</u>            |             |            |            |            |
| Date           | <u>9-19-53</u>      |             |            |            |            |
| First Reading  | <u>11850</u>        |             |            |            |            |
| Last Reading   | <u>4538</u>         |             |            |            |            |
| Feet Measured  | <u>7312</u>         |             |            |            |            |
| Csg. Schlum.   | <u>4538</u>         |             |            |            |            |
| Csg. Driller   | <u>4535</u>         |             |            |            |            |
| Depth Reached  | <u>11853</u>        |             |            |            |            |
| Bottom Driller | <u>11871</u>        |             |            |            |            |
| Depth Datum    | <u>1' aby. RT</u>   |             |            |            |            |
| Mud Nat.       | <u>Caustic</u>      | <u>Wbr.</u> |            |            |            |
| " Density      | <u>8.7</u>          |             |            |            |            |
| " Viscosity    | <u>68</u>           |             |            |            |            |
| " Resist.      | <u>1.01 @ 80 °F</u> | @ °F        | @ °F       | @ °F       | @ °F       |
| " Res. BHT     | <u>.52 @ 166 °F</u> | @ °F        | @ °F       | @ °F       | @ °F       |
| " pH           | <u>11 @ °F</u>      | @ °F        | @ °F       | @ °F       | @ °F       |
| " Wtr. Loss    | <u>9 CC 30 min.</u> | CC 30 min.  | CC 30 min. | CC 30 min. | CC 30 min. |
| Max. Temp. °F  | <u>166</u>          |             |            |            |            |
| Bit Size       | <u>7 7/8"</u>       |             |            |            |            |
| Spcgs.—AM      | <u>10"</u>          |             |            |            |            |
| AO             | <u>32" LS</u>       |             |            |            |            |
| AO             | <u>19' Lat</u>      |             |            |            |            |
| Opr. Rig Time  | <u>10 Hrs.</u>      |             |            |            |            |
| Truck No.      | <u>1760-Hobbs</u>   |             |            |            |            |
| Recorded By    | <u>Scott</u>        |             |            |            |            |
| Witness By     |                     |             |            |            |            |

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

*Amerada* EXHIBIT NO. 2

CASE NO. 1649