

APPLICATION FOR MULTIPLE COMPLETION

|                       |      |              |          |                    |
|-----------------------|------|--------------|----------|--------------------|
| Operator              |      | County       |          | Date               |
| Union Texas Petroleum |      | San Juan     |          | November 26, 1986  |
| Address               |      | Lease        |          | Well No. Lease No. |
| 375 US Highway 64     |      | Angel Peak B |          | 24E SF-047017-B    |
| Location of Well      | Unit | Section      | Township | Range              |
|                       | I    | 13           | 28N      | 11W                |

All Applicants for multiple completion must complete Items 1 and 2 below.

| 1. The following facts are submitted:                                                                                                          | Upper Zone                | Intermediate Zone                       | Lower Zone                       |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------|----------------------------------|
| a. Name of Pool and Formation                                                                                                                  | Otero Chacra              |                                         | Armenta Gallup *<br>Basin Dakota |
| b. Top and Bottom of Pay Section (Perforations)                                                                                                | 2881-3006                 |                                         | 5431-6051<br>6300-6419           |
| c. Type of production (Oil or Gas)                                                                                                             | Gas                       |                                         | Gas                              |
| d. Method of Production (Flowing or Artificial Lift)                                                                                           | Flowing                   |                                         | Flowing                          |
| e. Daily Production<br><input checked="" type="checkbox"/> Actual<br><input type="checkbox"/> Estimated<br>Oil Bbls.<br>Gas MCF<br>Water Bbls. | 0 bbl<br>920 MCF<br>0 bbl | DEC 02 1986<br>OIL CON. DIV.<br>DIST. 3 | 1 bbl<br>42 MCF<br>0 bbl         |

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Robert L. Frank Title Permit Coordinator Date 11-26-86

(This space for State Use)

Approved By [Signature] Title SUPERVISOR DISTRICT # 3 Date DEC 01 1986

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

UNION TEXAS PETROLEUM CORP.  
WELLBORE DIAGRAM

WELL NAME Angel Peak B 24E

LOCATION 1680' FSL & 850' FEL SECTION 13 T 28N R 11W

COUNTY San Juan STATE NM LEASE SF-047017-B

GLE 5838'

KBE 5850'

KB 12'

**SURFACE CASING**

Hole size: 17"

Casing: 13-3/8, 48#, H-40

Casing set @ 280

Top of Cement: Circ. to surface

**INTERMEDIATE CASING**

Hole Size: 12-1/4"

Casing: 9-5/8", 40#, K-55 LT&C

Casing set @ 5390'

Top of Cement: DV Tool at 2077  
Circ. to surface

**LINER HANGER**

Hanger Type: \_\_\_\_\_

Hanger Top @ 5211

**FORMATION TOPS**

Ojo Alamo 775

Kirtland Shale 885

Pictured Cliffs 1872

Lewis Shale \_\_\_\_\_

Chacra 2450

Cliffhouse 3450

Point Lookout 4207

Mancos Shale \_\_\_\_\_

Gallup 5428

Greenhorn \_\_\_\_\_

Graneros 6262

Dakota 6295

**PRODUCTION LINER**

Hole Size: 8-1/2"

Liner: 7" 23# K-55

Liner set @ 6569

Top of Cement: did not circ. cmt to  
liner

**WELL HISTORY**

Spud date: 12/20/82

Original owner: \_\_\_\_\_

IP: MCFD \_\_\_\_\_ BOPD \_\_\_\_\_ BWPD \_\_\_\_\_

GOR \_\_\_\_\_

Completion treatment: \_\_\_\_\_

**CURRENT DATA**

Pumping Unit: \_\_\_\_\_

Tubing: see below

Pump size: \_\_\_\_\_

Rod string: \_\_\_\_\_

Well Head: \_\_\_\_\_

Remarks: Tubing data:

Chacra: 2-3/8" 4.7# K-55

Landed @ 2837'

Gallup/Dakota: 2-3/8" 4.7# K-55

Landed @ 6396' KB Packer set

@ 5280' (Model R double grip)

**PERFORATIONS**

Chacra: 2881-3006

Gallup: 5431-6051

Dakota: 6300-6419

Date of Last Revision: \_\_\_\_\_

PBTD 6518'

TD 6576'

11 W 12 W

T-29-N

T-28-N

LAND PLAT-DAKOTA FORMATION

DAKOTA PRODUCTION DATA

WELL NAME

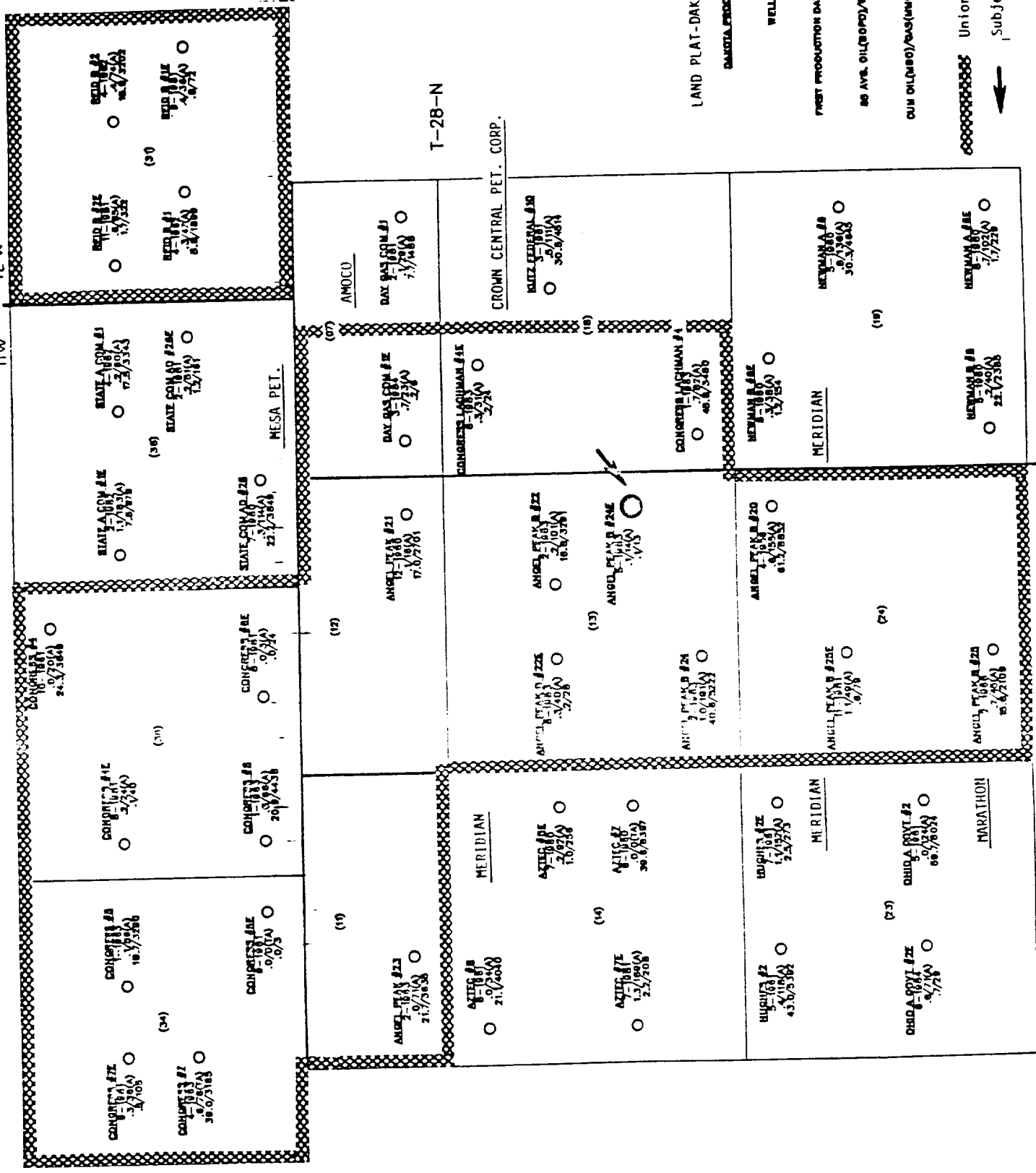
FIRST PRODUCTION DATE (YEAR-MONTH-DAY)

80 AVE. OIL(BOPD)/WAS(CUPPD) (STATUS)

CUM OIL(MBO)/WAS(MCOPD) - THROUGH 8/30/88

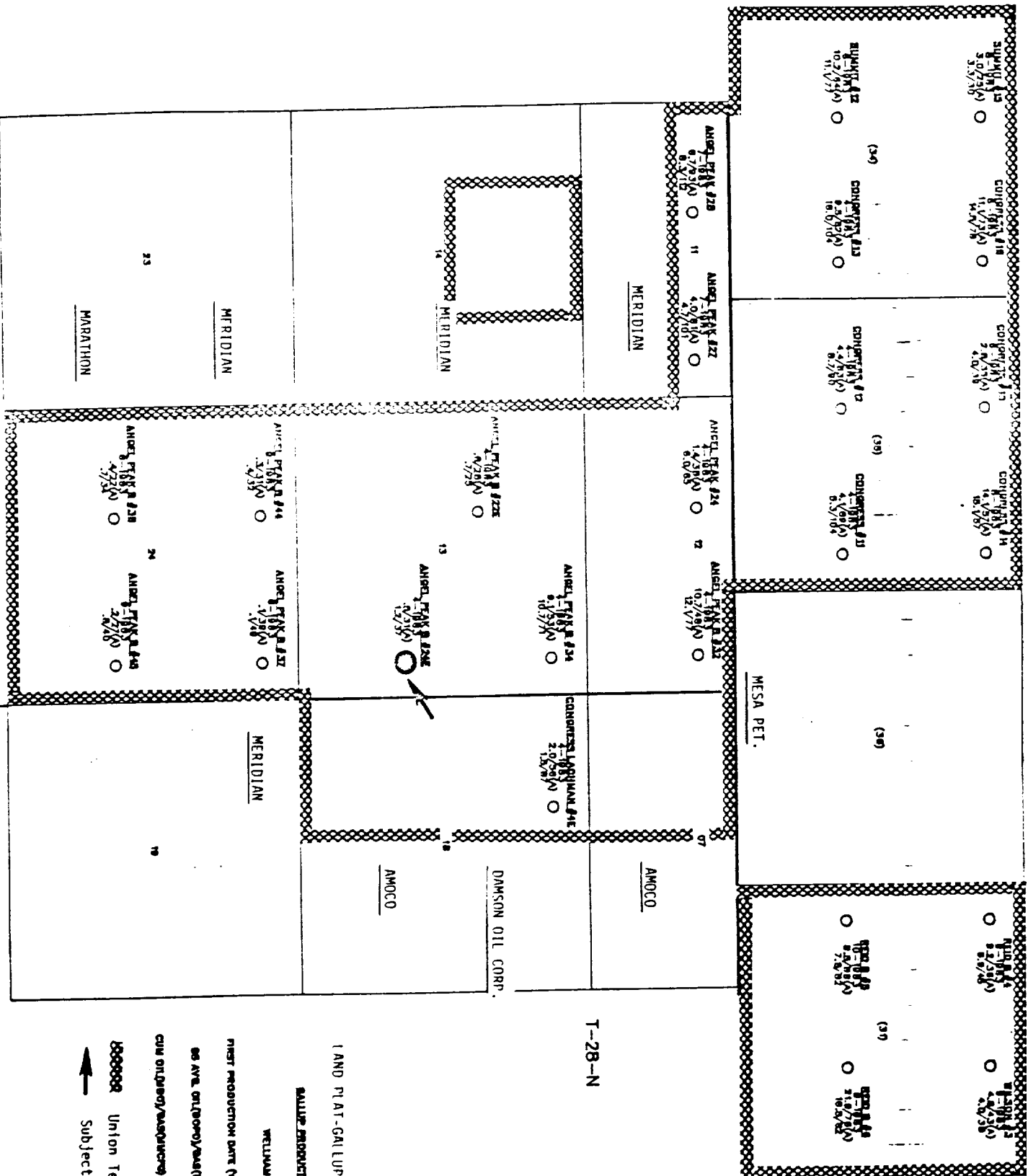
Union Texas Acreage

Subject Well



R-11-W

R-10-W



LAND PLAT-GAL LUP FORMATION

WELLNAME

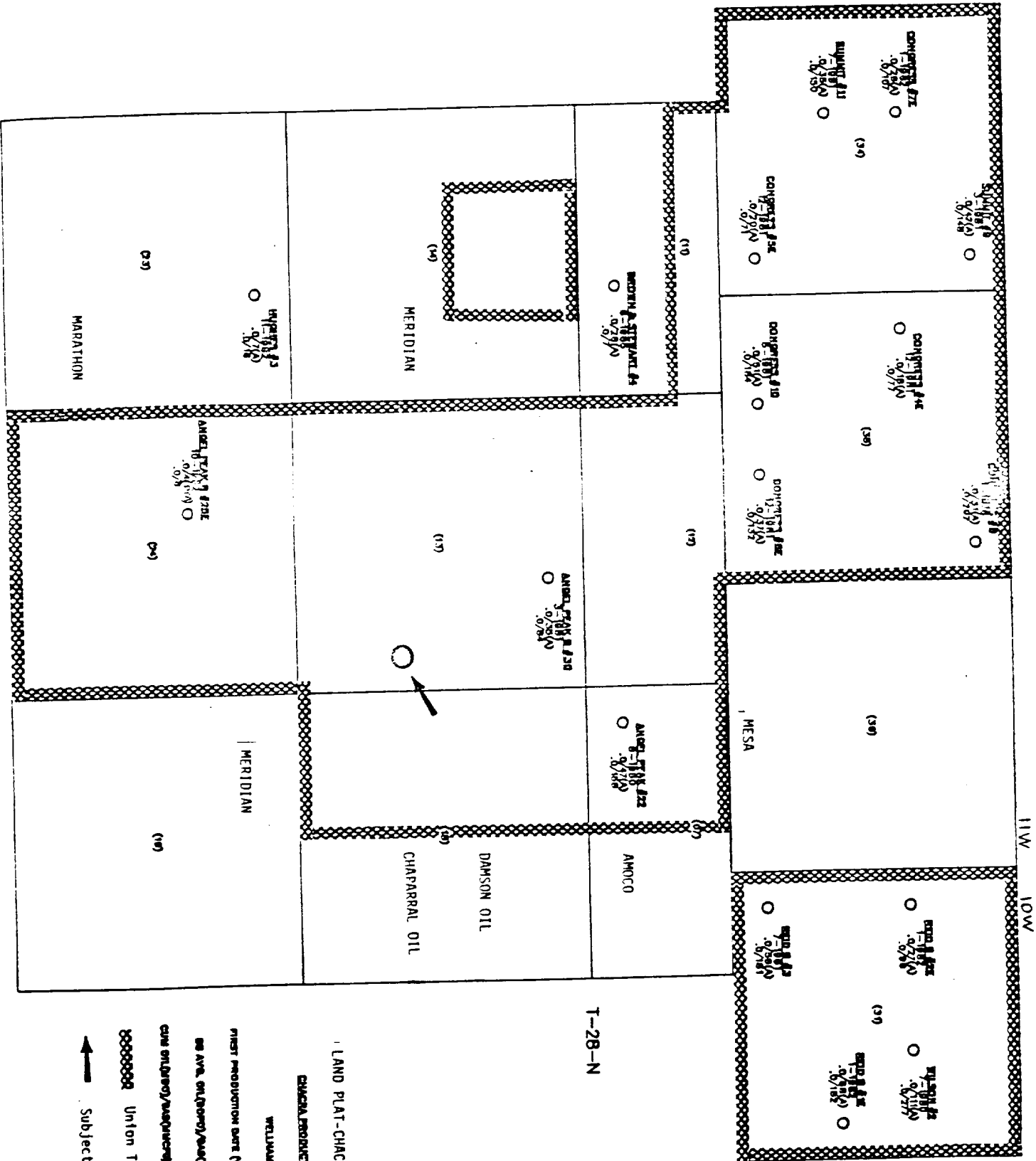
FIRST PRODUCTION DATE (YEAR-MONTH-DAY)

88 AVE. OILBORO/MAGNETRO (STATUS)

CUR OILBORO/MAGNETRO - THROUGH 6/30/85

Union Texas Acreage

Subject Well



R-11-W

R-10-W

T-28-N

T-29-N

LAND PLAT-CHACRA FORMATION

CHACRA PRODUCTION DATA

WELLNAME

FIRST PRODUCTION DATE (YEAR-MONTH-DAY)

DE AVE. ON (DOW)/WATER (STATUS)

CUM OIL (DOW)/WATER (STATUS) THROUGH 6/30/85

88888888 Union Texas Acreage

Subject Well

GEARHART

DUAL INDUCTION  
LATEROLOG

FILING NO

COMPANY UNION TEXAS PETROLEUM CORPORATION

WELL ANGEL PEAK "B" NO. 24 E

FIELD GALLUP BASIN DAKOTA

COUNTY SAN JUAN STATE NEW MEXICO

LOCATION 1680' EST. x 850' FEET

OTHER SERVICES

GDL/CNL/GP

SEC 13 TWP 28N RGE 11W

GROUND LEVEL

5838

5850

PEAK MEASUREMENT DATE 12/29/82  
100' MEASURED FROM K.B.  
DRILOG MEASURED FROM K.B.5849  
5838

Date 12/29/82 1/4/83

Run No ONE TWO

Depth Driller 5390 6573

Depth Logger 5397 6571

Bottom Logged Interval 5396 6570

Top Logged Interval 282 5393

Casing Driller 13 3/8 280 9 5/8 5396

Casing Logger 282 5393

Bit Size 12 1/2 8 1/2

Type Fluid in Hole GEL. GEL.

Density and Viscosity 9.4 8.9 5.2

pH and Fluid Losses 9 cc 8.5 5.0 cc

Source of Sample FLOWLINE FLOWLINE

Rm @ Meas Temp 4.1 @ 6.3 F 3.5 @ 5.4 F

Rm @ Meas Temp 4.6 @ 6.6 F 4.0 @ 6.2 F

Rmc @ Meas Temp 3.2 @ 6.6 F 2.2 @ 6.2 F

Source of Rm and Rmc N M M M

Rm @ BHT 1.7 @ 140 F 1.3 @ 165 F

End Circulation 04:30 24:00

Logger on Bottom 10:38 03:52

Max Rec Temp Deg F 140 F 165 F

Equip No and Location

## Changes in Mud Type or Additional Samples

## Scale Changes

| Sample No   | Type Log | Depth | Scale Up Hole | Scale Down Hole |
|-------------|----------|-------|---------------|-----------------|
| Driller     |          |       |               |                 |
| End in Hole |          |       |               |                 |
| Visc        |          |       |               |                 |
| Fluid Loss  | cc       | cc    |               |                 |

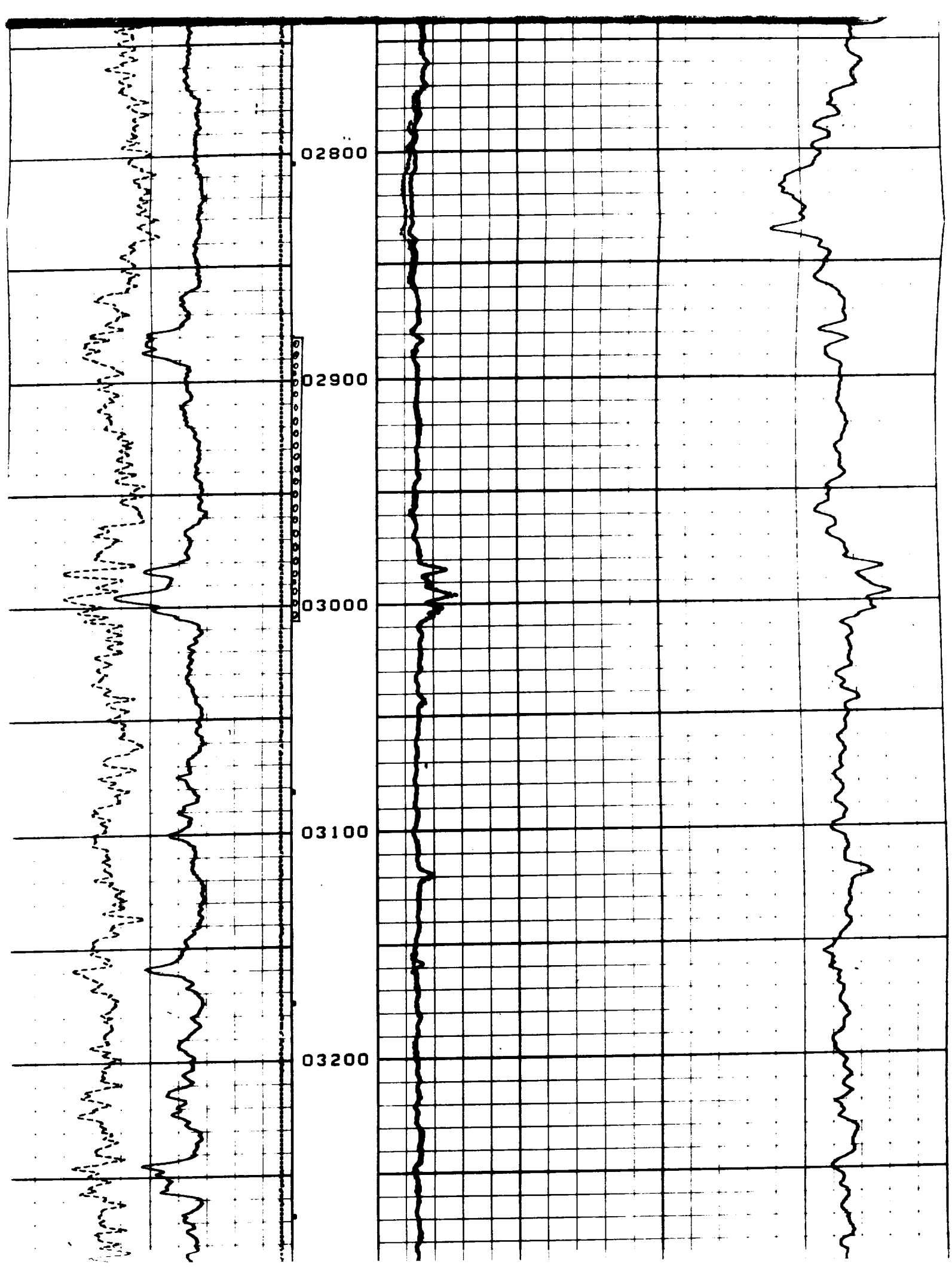
## EQUIPMENT DATA

| DUAL INDUCTION |   |    |   |    | GAMMA RAY |         |           |               |     |
|----------------|---|----|---|----|-----------|---------|-----------|---------------|-----|
| Meas Temp      | @ | °F | @ | °F | Run No    | Tool No | Tool Type | Tool Position | S O |
| Meas Temp      | @ | °F | @ | °F | ONE       | 5244    | DUAL      | FREE          | 1"  |
| Meas Temp      | @ | °F | @ | °F | TWO       | 5337    | DUAL      | FREE          | 2"  |
| Rm/Rmc         |   |    |   |    |           |         |           |               |     |
| BHT            | @ | °F | @ | °F |           |         |           |               |     |
| BHT            | @ | °F | @ | °F |           |         |           |               |     |

## CALIBRATION DATA

| LL      | LL        | ILD      | ILD     | ILD       | ILM      | ILM     | ILM       | K | B | GAMMA RAY |     |
|---------|-----------|----------|---------|-----------|----------|---------|-----------|---|---|-----------|-----|
| 2-Ohm/m | 500-ohm/m | Loop Cal | Int Cal | Tool Zero | Loop Cal | Int Cal | Tool Zero |   |   | BKG       | STD |
| 8.9     | 2506      | 90.4     | 649     | 10.7      | 140.5    | 743     | 5.11      |   |   | 105       | 440 |
| 6       | 2500      |          |         | 18.7      | 140      |         | 5.10      |   |   |           |     |
| 8.0     | 2495      | 87.5     | 650     | 8.4       | 138      | 744     | 5.20      |   |   | 110       | 455 |
| 10.5    |           | 90       | 649     | 10.6      | 140      | 742     | 5.11      |   |   |           |     |

RKS



Casing

05400

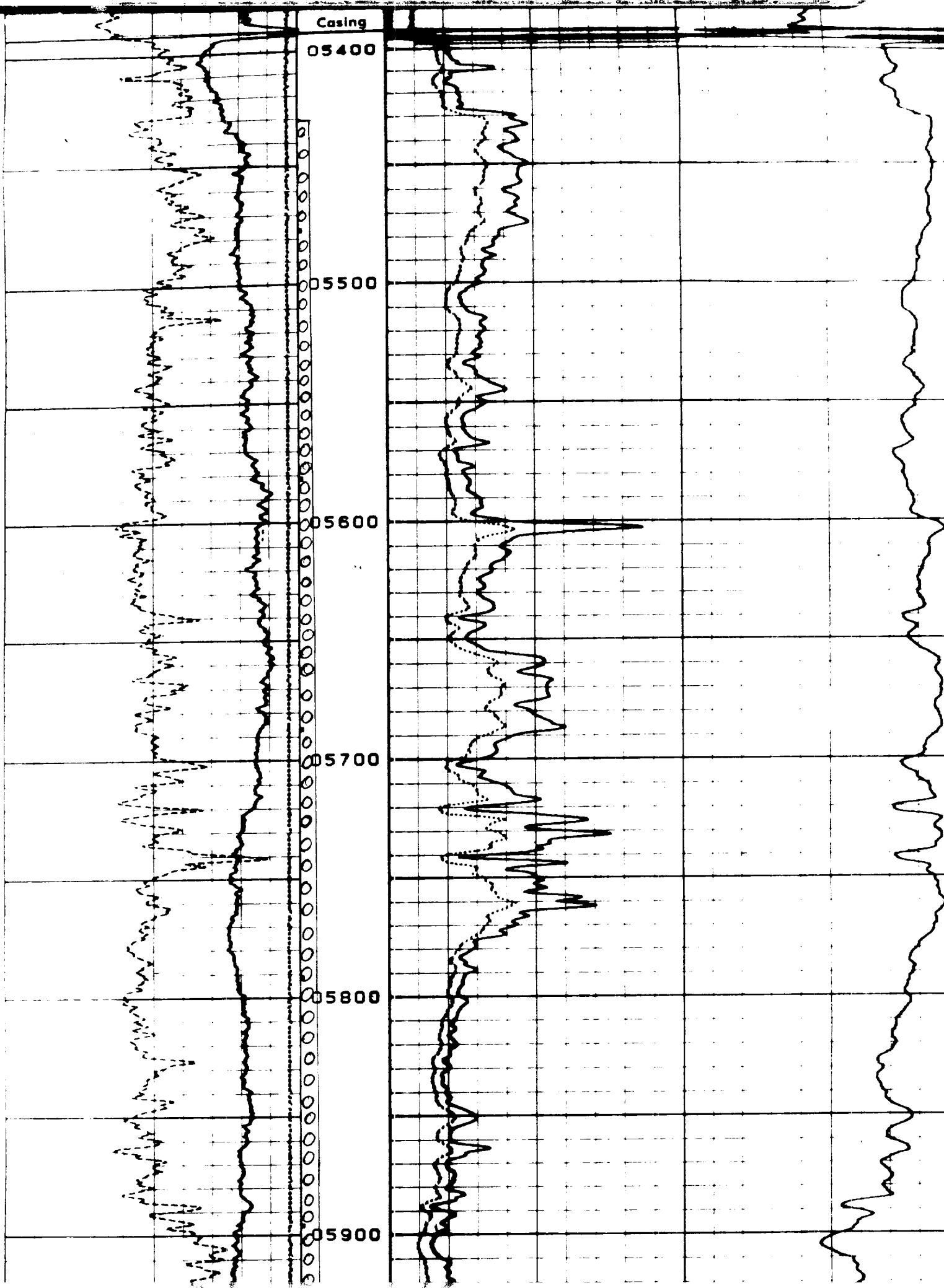
05500

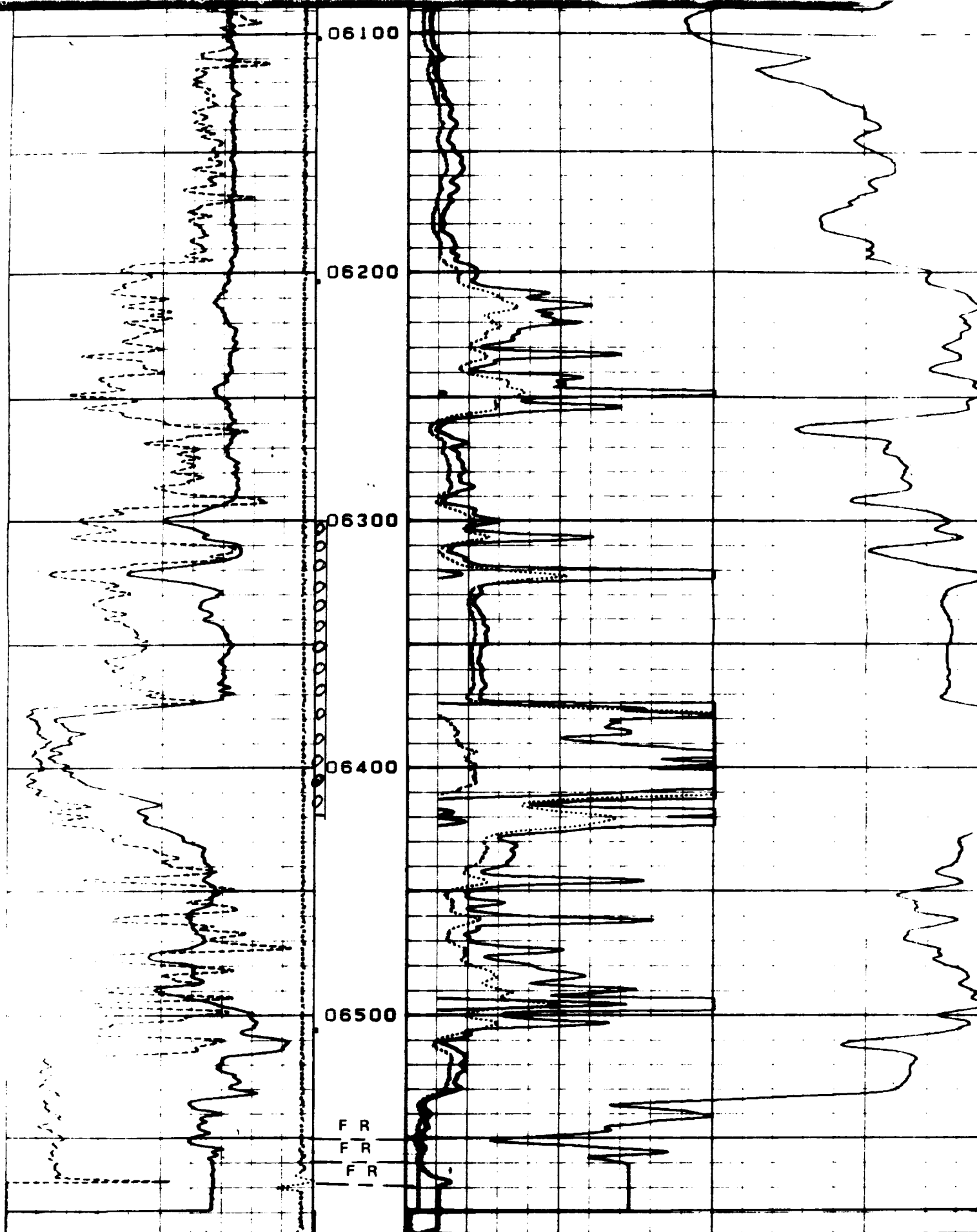
05600

05700

05800

05900





|                  |  |                   |       |
|------------------|--|-------------------|-------|
| 0.0 -1101+ 100.0 |  | 400 C (ILD)       | MMHOS |
|                  |  | 0 R (ILD) Ω-M 100 |       |
|                  |  | 0 R (ILD) Ω-M 100 |       |

