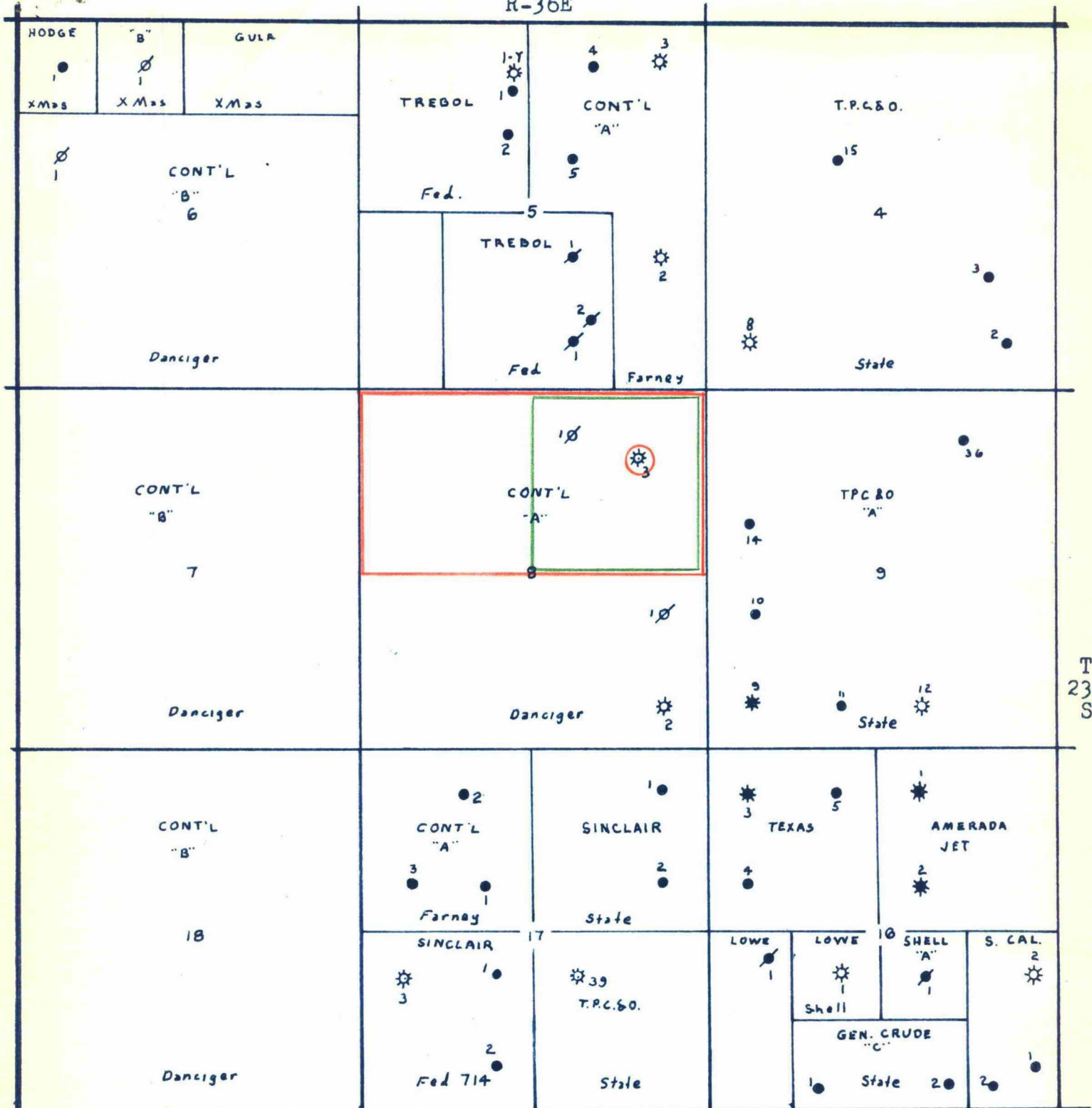


R-36E

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LOCATION AND OWNERSHIP PLAT  
CONTINENTAL OIL COMPANY

Danciger A-8 Lease

Jalmat Pool-Lea County, New Mexico

Scale 1" = 2000'

Danciger A-8 No. 3 ○

Jalmat Gas Well

— Approved Proration Unit

— Proposed Proration Unit

NEW MEXICO OIL CONSERVATION COMMISSION  
One-point Back Pressure Test for Gas Wells  
(Deliverability)

Form C-122-C  
4-1-54

Pool Jalmat Formation Yates County Lea  
Initial Annual X Special Date of test 4-3/4-10-59  
Company Continental Oil Company Lease Danciger A-8 Well No. 3  
Unit A Sec. 8 Twp. 23 Rge. 36 Purchaser El Paso Nat. Gas Co.  
Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3649 Perf. 3390 To 3600  
Tubing 2" Wt. 4.7 I.D. 1.995 Set at 3433 Perf.        To         
Gas Pay: From 3390 To 3600 L 3433 x G .668 = GL 2293 Bar. Press. 13.2  
Producing Thru: Casing X Tubing        Type Well Single  
Single- Bradenhead-G.C. or G.C. Dual

FLOW DATA

| Started |          | Taken |          | Duration | Type | Line | Orifice | Static | Differ- | Flow  |
|---------|----------|-------|----------|----------|------|------|---------|--------|---------|-------|
| Date    | time     | Date  | time     | Hours    | Taps | Size | Size    | Press. | ential  | Temp. |
| 4-6     | 10:35 AM | 4-7   | 10:35 AM | 24       | Flg. | 4"   | 1.000   | 262    | 42.25   | 74    |
|         | PM       |       | PM       |          |      |      |         |        |         |       |

FLOW CALCULATIONS

| Static Pressure<br>P <sub>f</sub> | Differ-<br>ential<br>h <sub>w</sub> | Meter<br>Extension<br>$\sqrt{P_f h_w}$ | 24-Hour<br>Coeff-<br>icient | Gravity<br>Factor<br>F <sub>g</sub> | Temp.<br>Factor<br>F <sub>t</sub> | Compress-<br>ability<br>F <sub>pv</sub> | Rate of Flow<br>MCF/Da. @ 15.025 psia<br>Q |
|-----------------------------------|-------------------------------------|----------------------------------------|-----------------------------|-------------------------------------|-----------------------------------|-----------------------------------------|--------------------------------------------|
| 275.2                             | 42.25                               | 107.82                                 | 6.135                       | .9477                               | .9868                             | 1.026                                   | 634.7                                      |

SHUT-IN DATA

| Shut-in |          | Press. Taken |          | Duration | Wellhead Pressure<br>(P <sub>c</sub> ) psia |        | W.H. Working Pressure<br>(P <sub>w</sub> ) and (P <sub>t</sub> ) psia |        |
|---------|----------|--------------|----------|----------|---------------------------------------------|--------|-----------------------------------------------------------------------|--------|
| Date    | Time     | Date         | Time     | Hours    | Tubing                                      | Casing | Tubing                                                                | Casing |
| 4-7     | 10:35 AM | 4-8          | 10:35 AM | 24       |                                             | 420.2  |                                                                       | 282.2  |
|         |          | 4-9          |          | 48       |                                             | 430.2  |                                                                       |        |
|         |          | 4-10         |          | 72       |                                             | 435.2  |                                                                       |        |
|         | PM       |              | PM       |          |                                             |        |                                                                       |        |

FRICTION CALCULATIONS (if necessary)

$$P_w^2 = (282.2)^2 + (1.712 \times .6347)^2 (.146) = 79.81$$

$$P_w = 282.51$$

SUMMARY

P<sub>c</sub> = 435.2 psia  
Q = 634.7 MCF/Da.  
P<sub>w</sub> = 282.51 psia  
P<sub>d</sub> = 348.2 psia  
D = 440 MCF/Da.  
= -1.841066 +

DELIVERABILITY CALCULATIONS

P<sub>w</sub> 282.5 P<sub>c</sub> 435.2 P<sub>w</sub> + P<sub>c</sub> .6491

$$1 - \frac{P_w}{P_c} = .3509 \quad 1 + \frac{P_w}{P_c} = 1.6491 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \quad .5787$$

$$.36 + M = .6221 \quad \text{Log } -1.793860 \quad x (n) = .771$$

COMPANY Continental Oil Company  
ADDRESS Box 68, Dunice, New Mexico  
AGENT and TITLE Dist. Supt.  
WITNESSED         
COMPANY       

Log Q = 2.802569  
Log D = 2.643635  
Antilog = 440.2 = D

REMARKS

This well began loading up with fluid just prior to recording flow data. Permission is requested to retest at rate sufficient to keep well unloaded.

| R-30E                                                                                               |                                                                                                                                                                     |                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>HODGE<br/>1<br/>XMAS</div> <div>"B"<br/>1<br/>XMAS</div> <div>GULA<br/>XMAS</div> </div> | <div> <div>TREBOL<br/>1<br/>Fed.</div> <div>CONT'L "A"<br/>4<br/>3<br/>5</div> <div>T.P.C. &amp; O.<br/>15</div> </div>                                             |                                                                                                                                            |
| <div> <div>1<br/>CONT'L "B"<br/>6</div> <div>Danciger</div> </div>                                  | <div> <div>TREBOL<br/>1<br/>Fed.</div> <div>2<br/>Farney</div> <div>8<br/>State</div> <div>3<br/>2</div> </div>                                                     |                                                                                                                                            |
| <div> <div>CONT'L "B"<br/>7</div> <div>Danciger</div> </div>                                        | <div> <div>1<br/>CONT'L "A"<br/>3</div> <div>TPC &amp; O "A"<br/>14</div> <div>36</div> </div>                                                                      |                                                                                                                                            |
| <div> <div>CONT'L "B"<br/>18</div> <div>Danciger</div> </div>                                       | <div> <div>2<br/>CONT'L "A"<br/>3<br/>1<br/>Farney</div> <div>SINCLAIR<br/>2<br/>State</div> <div>TEXAS<br/>5<br/>4</div> <div>AMERADA JET<br/>1<br/>2</div> </div> |                                                                                                                                            |
|                                                                                                     | <div> <div>SINCLAIR<br/>3<br/>1<br/>Fed 714</div> <div>39<br/>T.P.C. &amp; O.<br/>State</div> </div>                                                                | <div> <div>LOWE<br/>1</div> <div>LOWE<br/>1<br/>Shell</div> <div>GEN. CRUDE "C"<br/>1<br/>State</div> <div>2<br/>S. CAL<br/>2</div> </div> |

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Scale 1" = 2000'

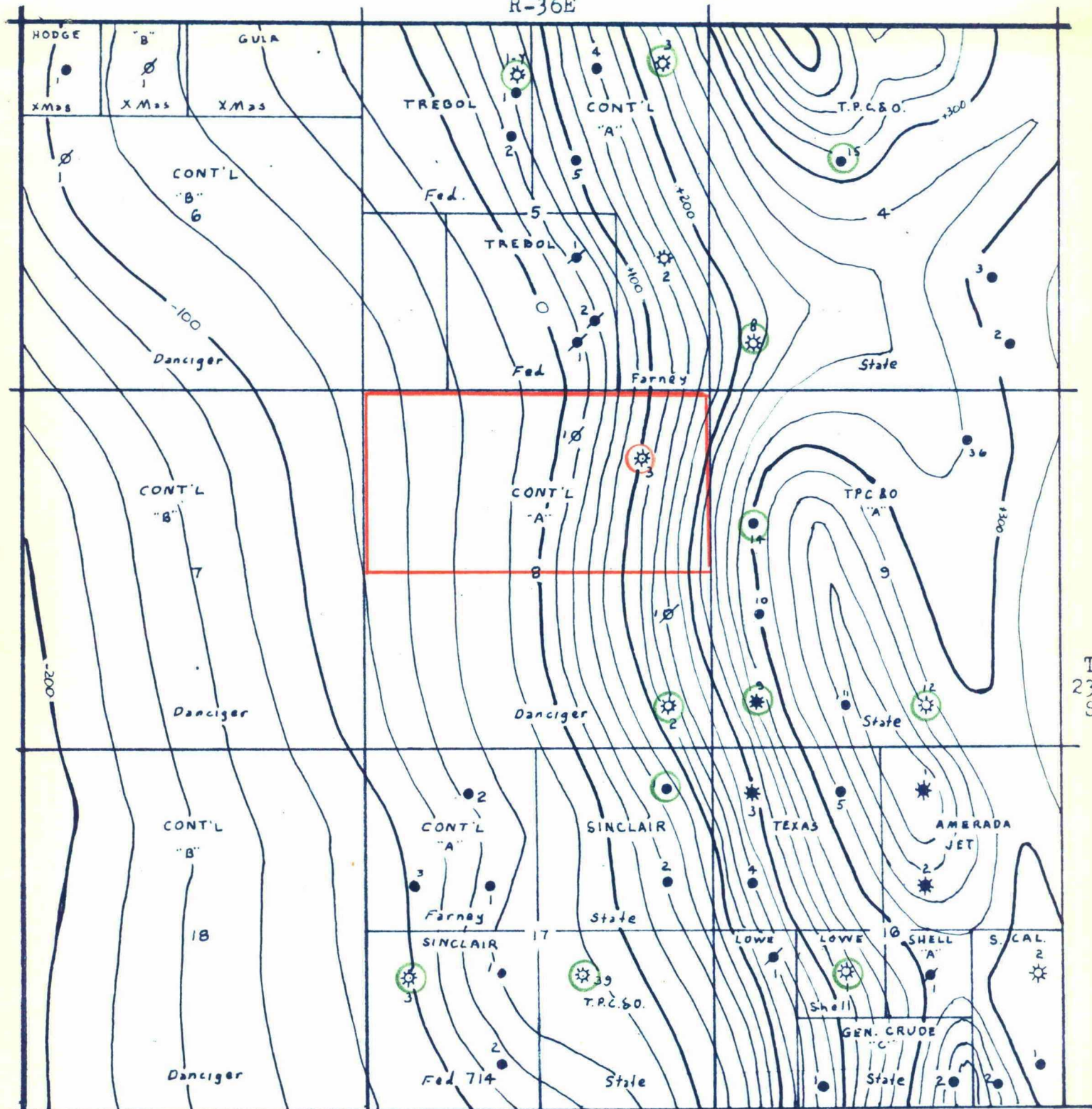
Jalmat Gas Well ○

Proposed Proration Unit —

Cont. EXHIBIT NO. 1

CASE NO. 1652

R-36E

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CONTINENTAL OIL COMPANY  
STRUCTURE MAP-JALMAT POOL  
CONTOURED ON TOP OF YATES SANDS

Danciger A-8 Lease

Contour Interval: 20'

Scale: 1" = 2000'

Proposed Unit Well   
Jalmat Gas Well 

Proposed Gas Unit 

BEFORE EXAMINER UTZ

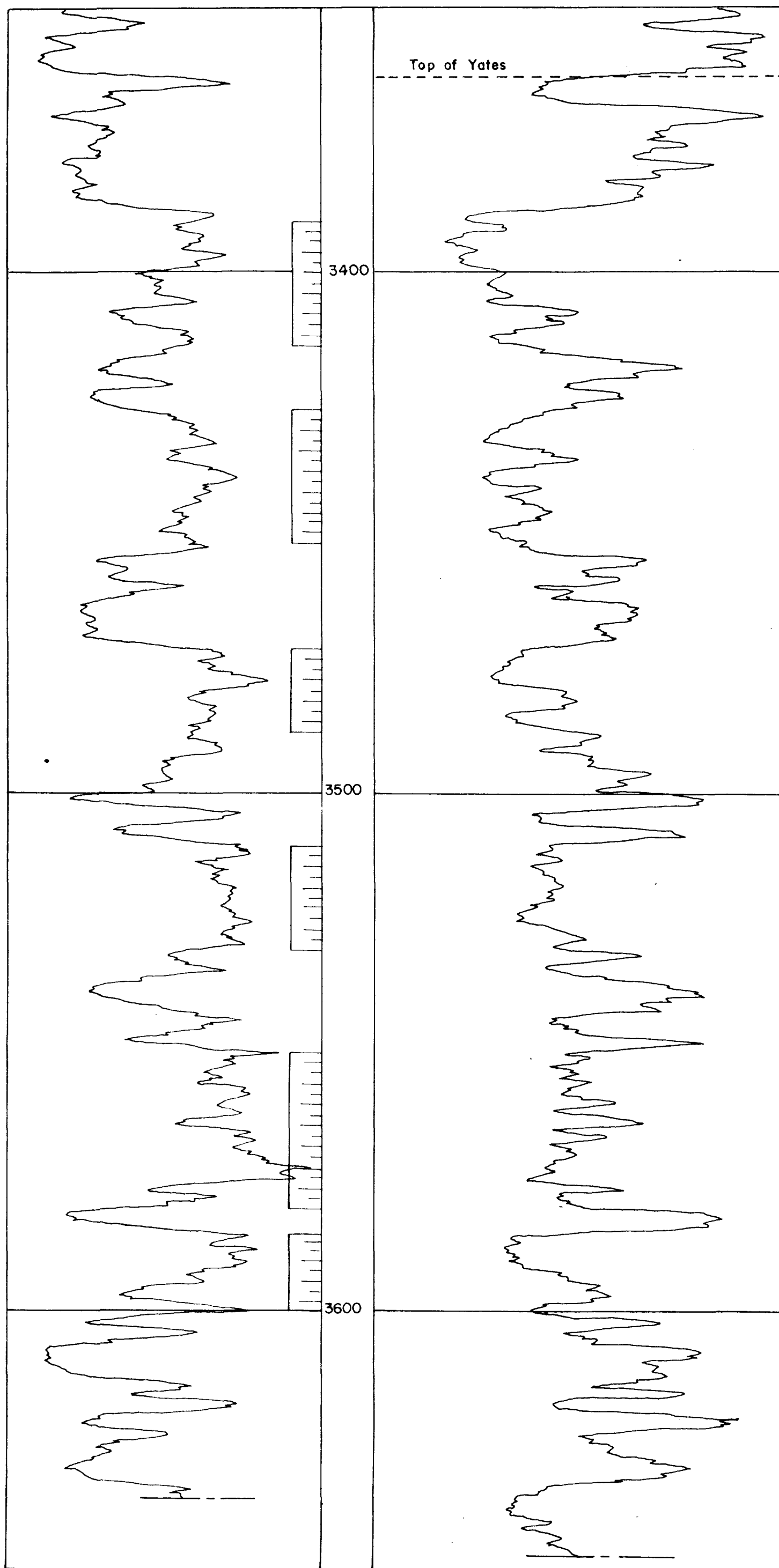
OIL CONSERVATION COMMISSION

Cont- EXHIBIT NO. 2

CASE NO. 1657

# CONTINENTAL OIL COMPANY

Danciger A-8 No. 3



Spudded 7 p.m. 1-4-58. Set 8 5/8" csg. at 360'. Set 5 1/2" csg. at 3649'.

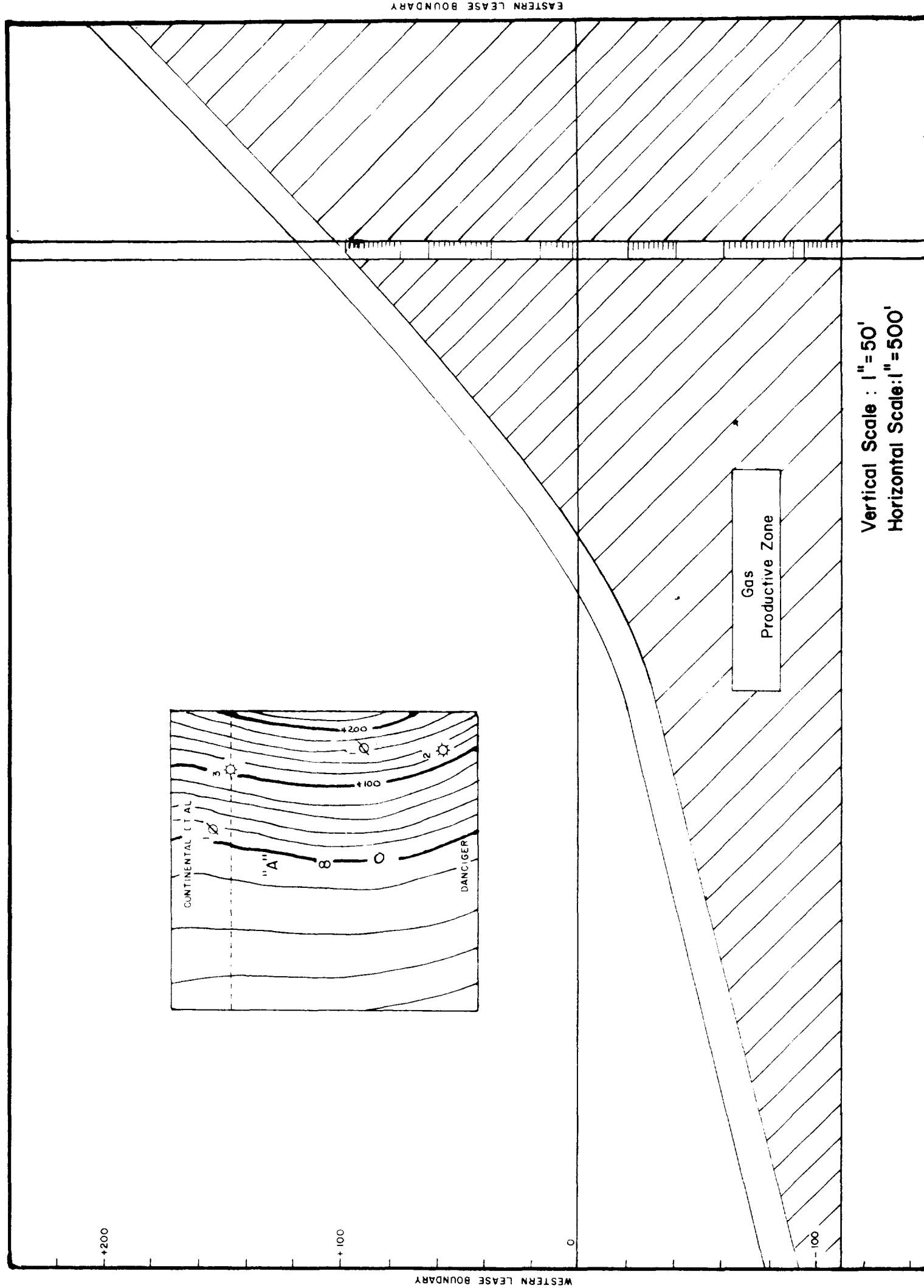
Perforated with 2 shots/ft 3390-3414', 3426-3452', 3472-3488', 3510-3520'. Perforated w/4 shots/ft 3520-3530', 3550-3580', 3585-3600'. Acidized interval 3510-3530', 3550-3580', 3585-3600' w/500 gals 15% LSTNE acid. Sandfraced interval above w/6000 gals crude, 6000# sand, 600# Adomite. Pressure: Max 5500#, min 5000#. SIP 1100#, avg inj rate 6 bbls/min.

Acidized interval 3390-3414', 3426-3452', 3472-3488' w/500 gals. 15% LSTNE acid. Sandfraced above interval w/6000 gals crude, 6000# sand, 600# Adomite. Pressure: Max 4600#, min 4200#. SIP 600#, avg inj rate 7 bbls/min.

Waterfraced various intervals between 3390-3600' w/60,000 gals. water, 60,000# sand. Pressure: Max 3400#, min 2100#. SIP 250#. Avg inj rate 42.9 bbls/min.

Tested 3-5-58. O. F. Potential = 1300 MCFPD. Deliverability @ 350 psig = 685 MCFPD. Deliverability @ 150 psig = 1140 MCFPD. Shut-in pressure = 513.2 psia. TD 3650', DF 10', elev 3488' DF.

# Interpretive Cross - Section Danciger A-8 Lease Showing Gas Productive Yates



BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

*Ant.* EXHIBIT NO. 4

CASE NO. 1652

Form C-122-C  
4-1-54

Single- Bradenhead-G.C. or G.C. Dual

This well began loading up with fluid just prior to recording flow data. Permission is requested to retest at rate sufficient to keep well unloaded.

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Cont. EXHIBIT NO. 4

CASE NO. 1652