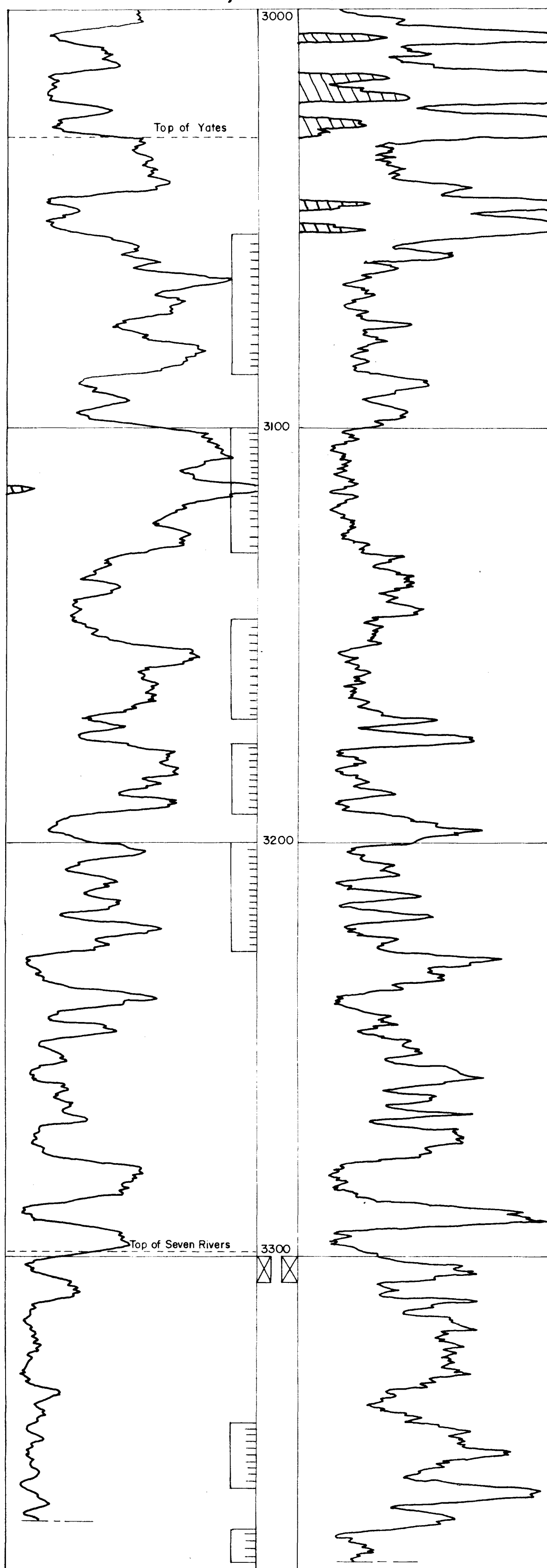


CONTINENTAL OIL COMPANY
Lynn A-28 No.5



Elevation: 3419' GL. RT 13' above GL. Set 7" csg. @ 2926'.

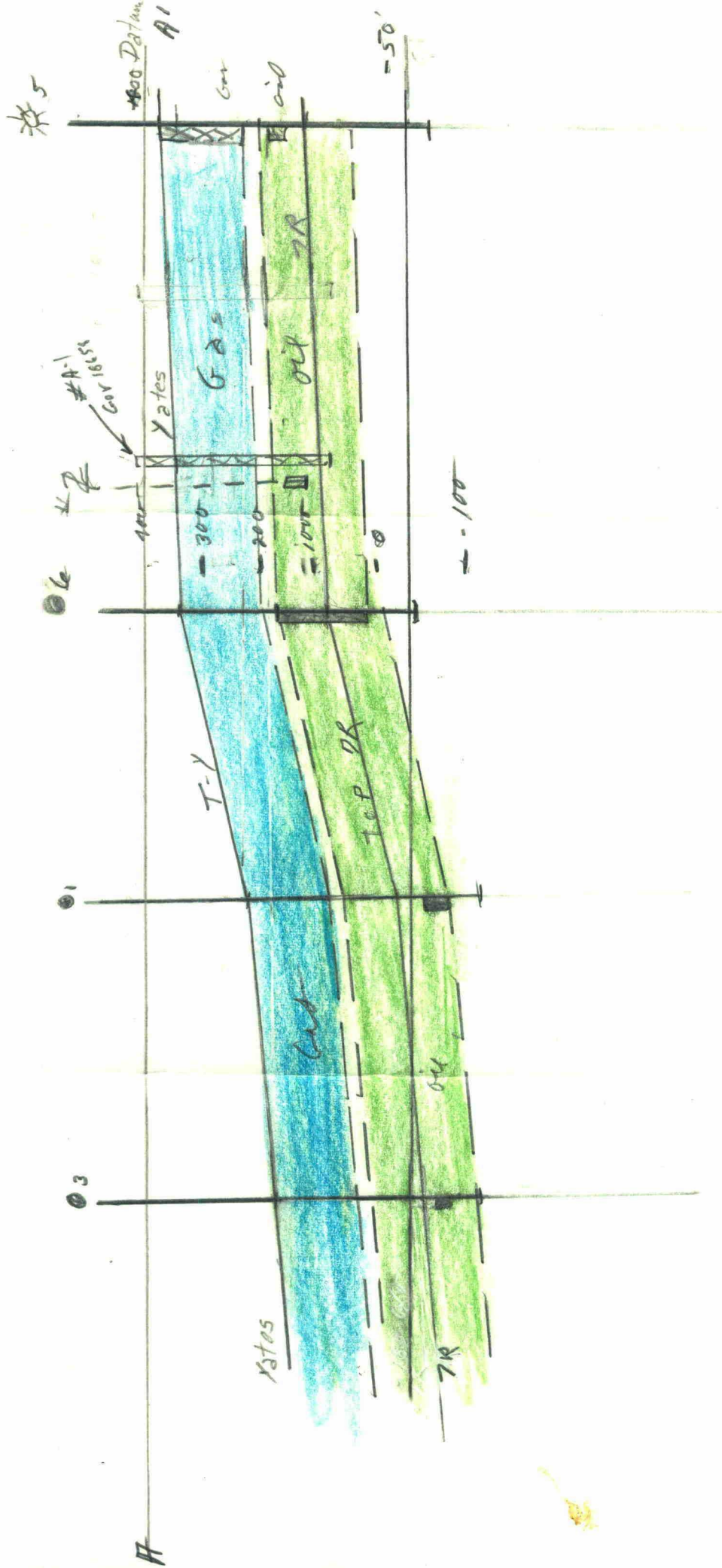
Deepened well from 3276' to new TD 3375'. Set 5" OD Liner @ 3374'. Perforated 3340-56' and 3366-3374'.

Perforated liner: 3054-87'; 3100-30'; 3146-70'; 3176-93' and 3200-26'. Acidized with 500 gallons. Dually completed for daily potential of 5,400 MCF gas with shut in pressure of 698.2 psia.

Pays: Oil: Seven Rivers from 3340' to 3374'.
Gas: Yates from 3054' to 3326'.

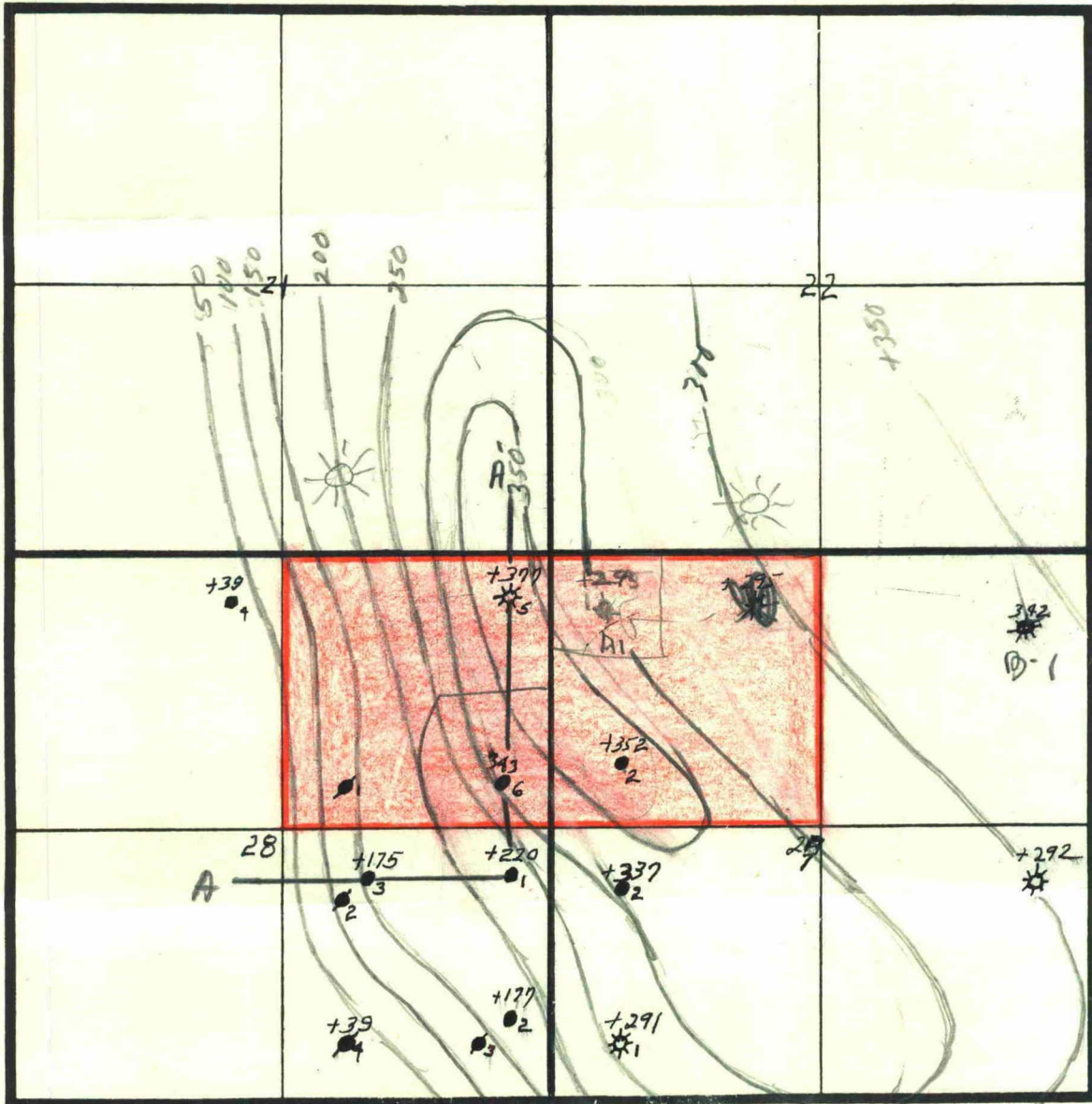
Completed: 5-18-53. Tested 5-13-53.

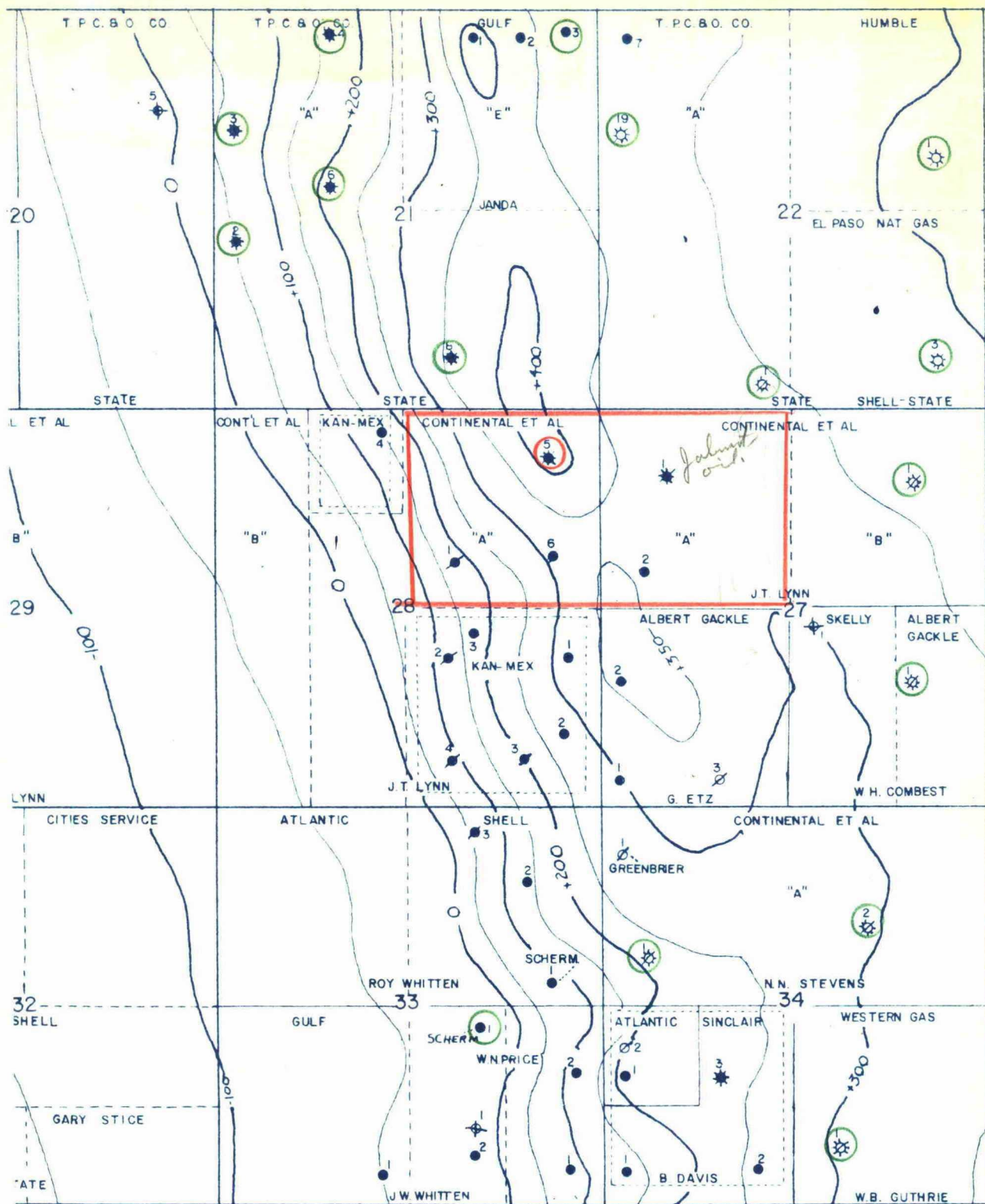
BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
Cont	EXHIBIT NO. 3
CASE NO. 1653	



Sec. 21, 22, 28, 29 Township No. 23 of Range No. 36

UAlmat Gas Pool
Yates Contour
50'





CONTINENTAL OIL COMPANY

R-36-E; T-23-S
STRUCTURE MAP

Contoured on top of Yates Formation

Contour Int. = 50'

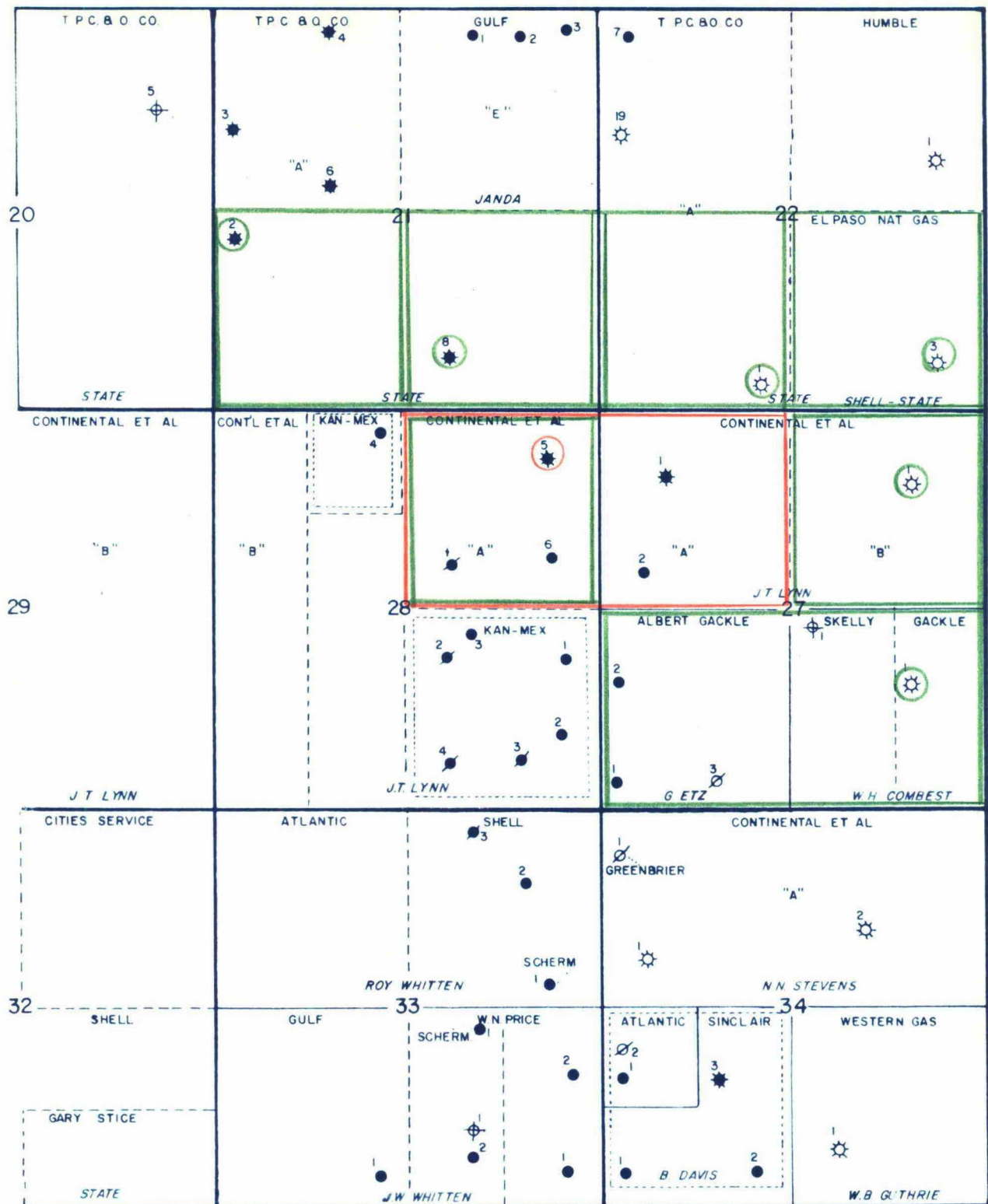
BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2

CASE NO. 1657

R-36-E



CONTINENTAL OIL COMPANY

Location and Ownership Map

Scale: 1" = 2000'

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
Cont.	EXHIBIT NO. 1
CASE NO. 1653	

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 3-14/3-21-58
Company Continental Oil Company Lease Lynn A-28 Well No. 5
Unit A Sec. 28 Twp. 23S Rge. 36E Purchaser El Paso Nat. Gas Co.
Casing 7" Wt. 23 I.D. 6.366 Set at 3054 Perf. 3054 To 3226
Tubing 3.5/2 7/8 Wt. 9.3/6.5 I.D. 2.992 Set at 2868/3293 Perf. To
Gas Pay: From 3054 To 3226 2.441 2868/186 x G .670 = GL 1908/125 Bar.Press. 13.2
Producing Thru: Casing X Tubing Type Well G. O. Dual
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
3-17	11:00 AM	3-18	11:00 AM	24	Flg.	4"	1.500	333	43.56	68
	PM		PM							

FLOW CALCULATIONS

Static Pressure P_f	Differ- ential h_w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F_g	Temp. Factor F_t	Compress- ability F_{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
346.2	53.56	122.80	13.99	.9463	.9924	1.036	1671.4

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P_c) psia		W.H. Working Pressure (P_w) and (P_t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3-18	11:00 AM	3-19		24		423.2		
		3-20	11:00 AM	48		423.2		354.2
	PM	3-21		72		422.2		
			PM					

FRICTION CALCULATIONS (if necessary)

$$P_w^2 = (354.2)^2 + (1.105 \times 1.671)^2 (.123) + (865 \times 1.671)^2 (.008)$$

$$\frac{125.46}{125.46} + .42 + .01 = 125.89$$

$$P_w = 354.80$$

DELIVERABILITY CALCULATIONS

$$P_w \quad 354.8 \quad P_c \quad 423.2 \quad P_w + P_c \quad .8384$$

$$1 - \frac{P_w}{P_c} \quad .1616 \quad 1 + \frac{P_w}{P_c} \quad 1.8384 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \quad .2971$$

$$.36 + M \quad 1.212 \quad \text{Log} \quad 0.08350 \quad x (n) \quad .544$$

SUMMARY

$P_c = 423.2$ psia
 $Q = 1671$ MCF/Da.
 $P_w = 354.8$ psia
 $P_d = 338.6$ psia
 $D = 1,855$ MCF/Da.

Log Q = 3.22298

Log D = 3.26840

Antilog = 1855.2 = D

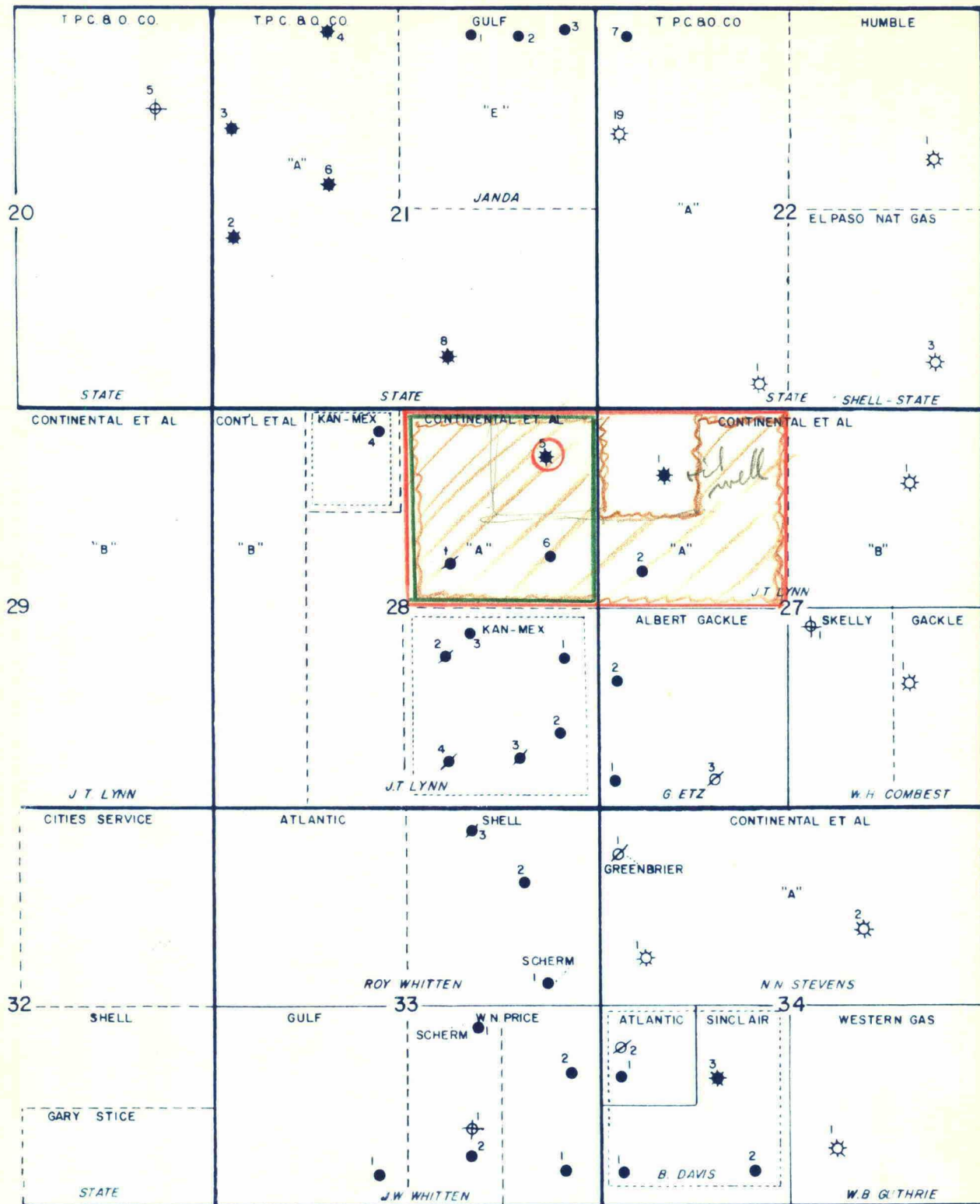
COMPANY Continental Oil Company
ADDRESS Box 68, Eunice, New Mexico

AGENT and TITLE Dist. Supt.

WITNESSED BEFORE EXAMINER UTZ

COMPANY
OIL CONSERVATION COMMISSION
Cont. EXHIBIT NO. 4
CASE NO. 1653

R-36-E



CONTINENTAL OIL COMPANY

Location and Ownership Map

Scale: 1" = 2000'

Drwn by: COG