

CONTINENTAL OIL COMPANY
CASE NO. 969
EXHIBIT NO. 4

TO:

SUBJECT: GAS WELL BACK PRESSURE TEST WELL Jack A-21 No. 1
POOL Jalnet
LOCATION N 21-24-37

A 27 hour back pressure test was conducted on subject well on October 12, 1955 to determine the theoretical open flow capacity of the Yates gas zone at zero bottom hole pressure and the deliverability characteristics at various rates of flow. Well is producing from 5 1/2" casing at 3000' - 3200'. A calculated open flow potential of 2,200 MCF of gas per day was obtained.

Attached are curves representing the calculated open flow potential and deliverability and a chart tabulating the data obtained by this test.

Calculated open flow potential: 2,200 MCFGPD
Deliverability at 600 lbs. psi: 925 MCFGPD
Deliverability at 150 lbs. psi: 2,130 MCFGPD
Shut in pressure: 819.2 lbs. psia

H. Howard

Gas Tester

CC:

ILLEGIBLE

BEFORE THE
CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Concedo EXHIBIT No. 4
CASE 969

CONTINENTAL OIL COMPANY
HOBBS DISTRICT
GAS WELL DATA

VOLUME
(CALCULATED WCFD)

Q 1 955
Q 2 1098
Q 3 1127
Q 4

WORKING
WELLHEAD PRESSURE (PSIA)

Pc - 819.2
Pw1 - 610
Pw2 - 573
Pw3 - 566
Pw4

W.H.P. 2

Pc2 - 671M
Pw12 - 372M
Pw22 - 320M
Pw33 - 320M
Pw44 -

P2 - P2

299 M
343 M
351 M

Volumes were corrected for specific gravity, flowing temperature, atmospheric pressure and supercompressibility when applicable.

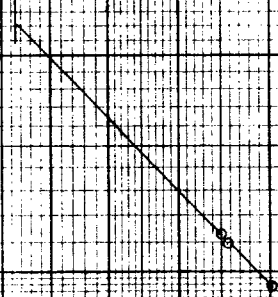
Specific Gravity .655
GPM Content .279
CO2 Content M
H2S Content M
Water Production 0
Distillate Production 0
Distillate Gravity

ILLEGIBLE



CALCULATED OPEN FLOW POTENTIAL
CONTINENTAL JACK A-21 No. 1
October 12, 1955

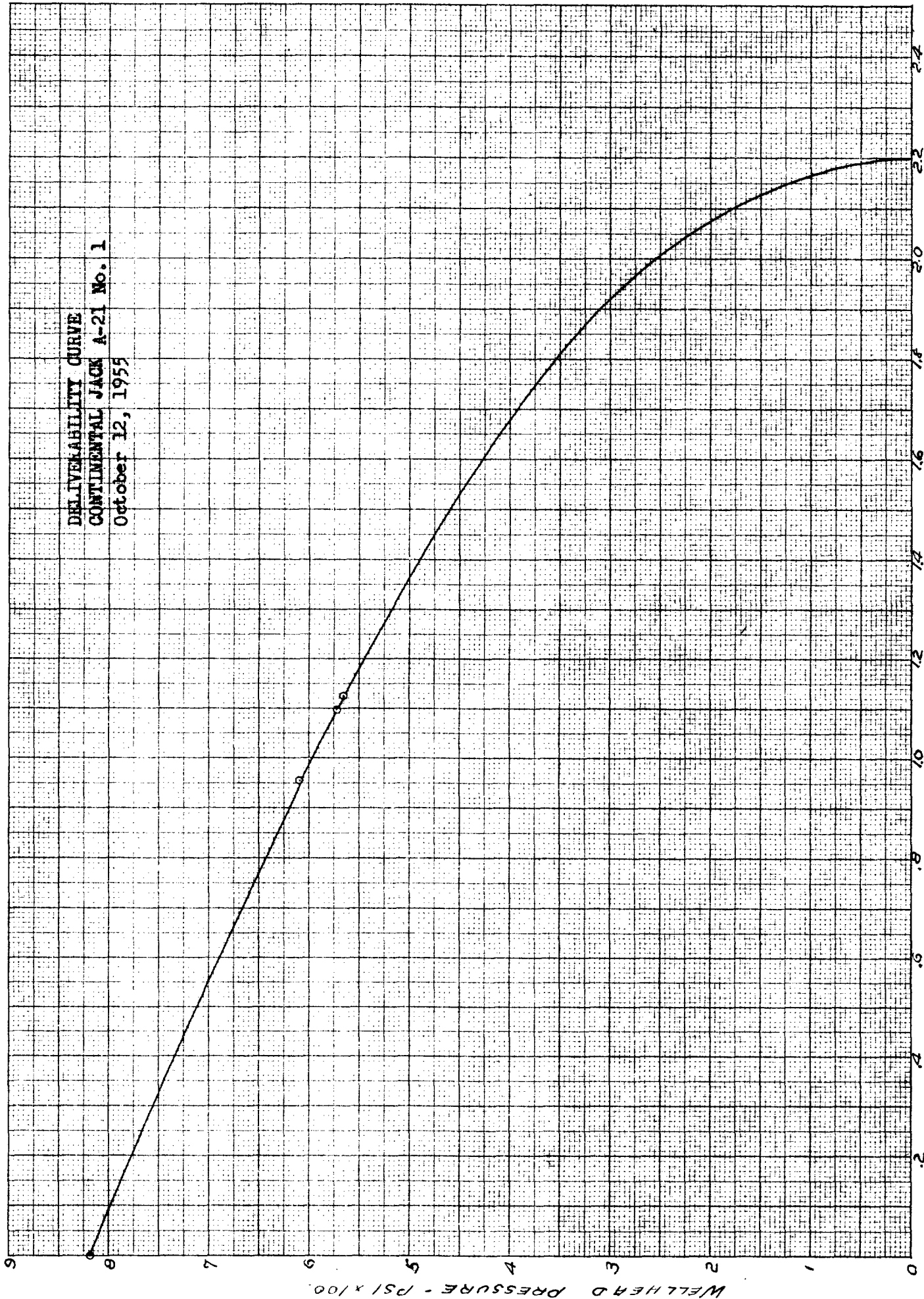
Open Flow (BHP 0) = 2,200 MCF



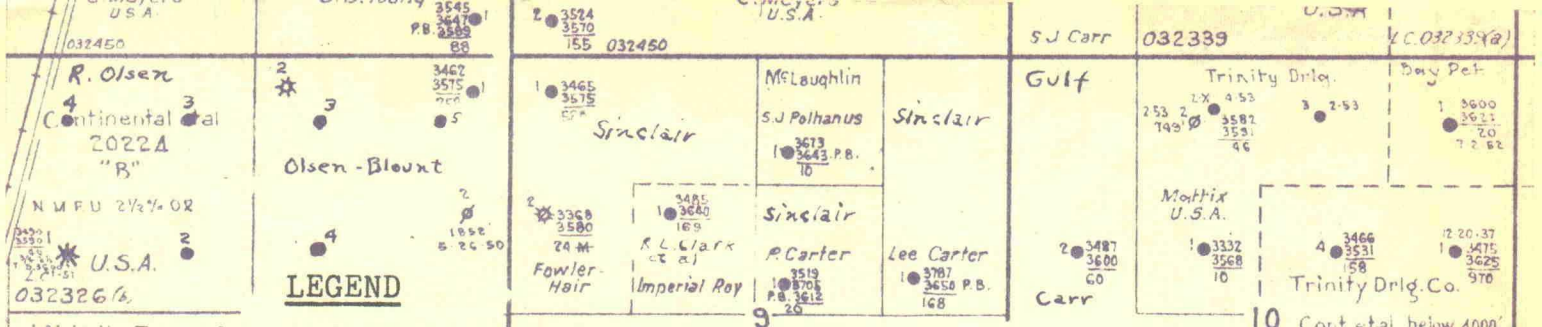
VOLUME - MCF



DELIVERABILITY CURVE
CONTINENTAL JACK A-21 No. 1
October 12, 1955

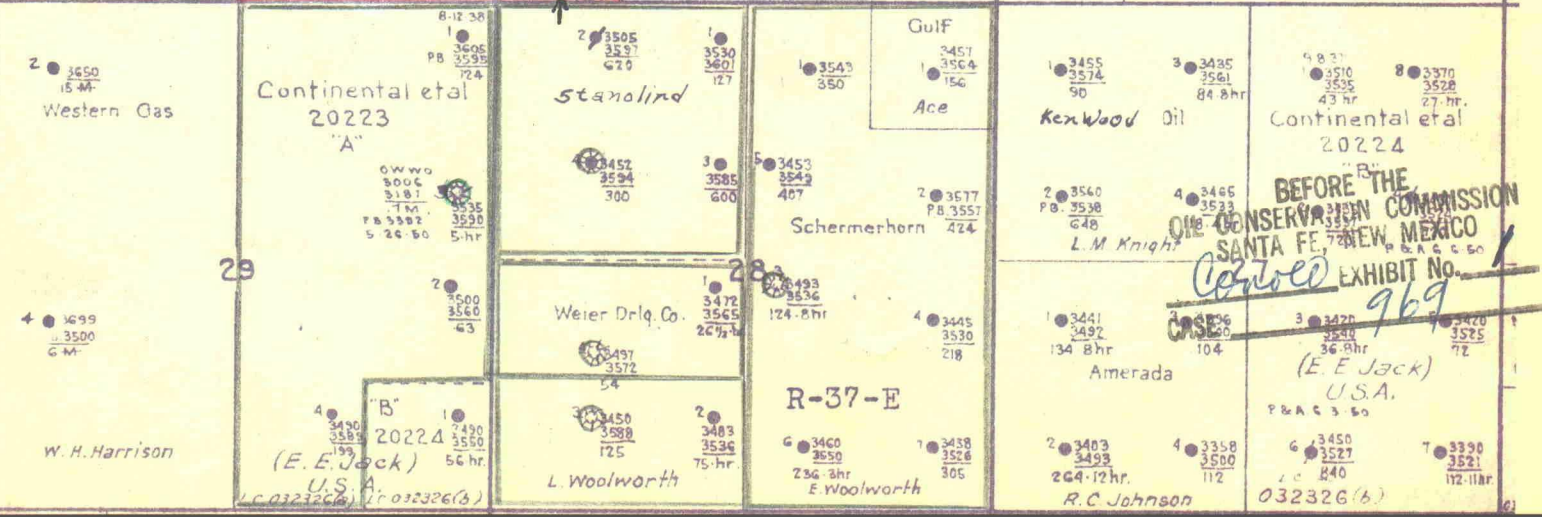
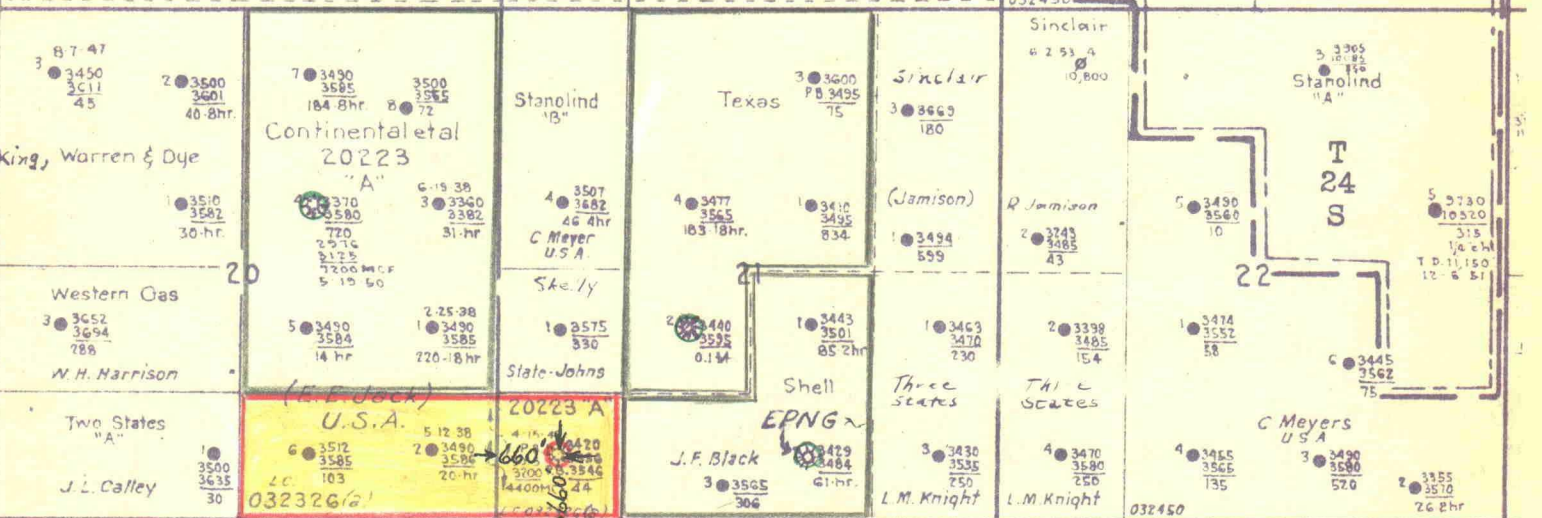
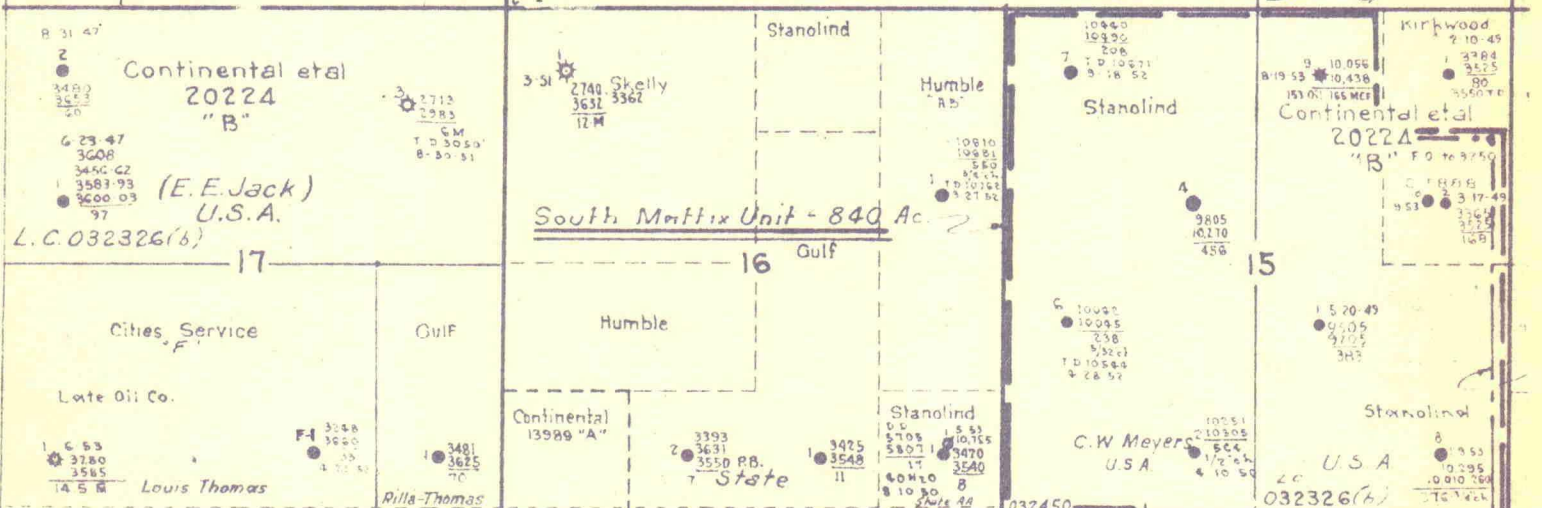


VOLUME - MMCF

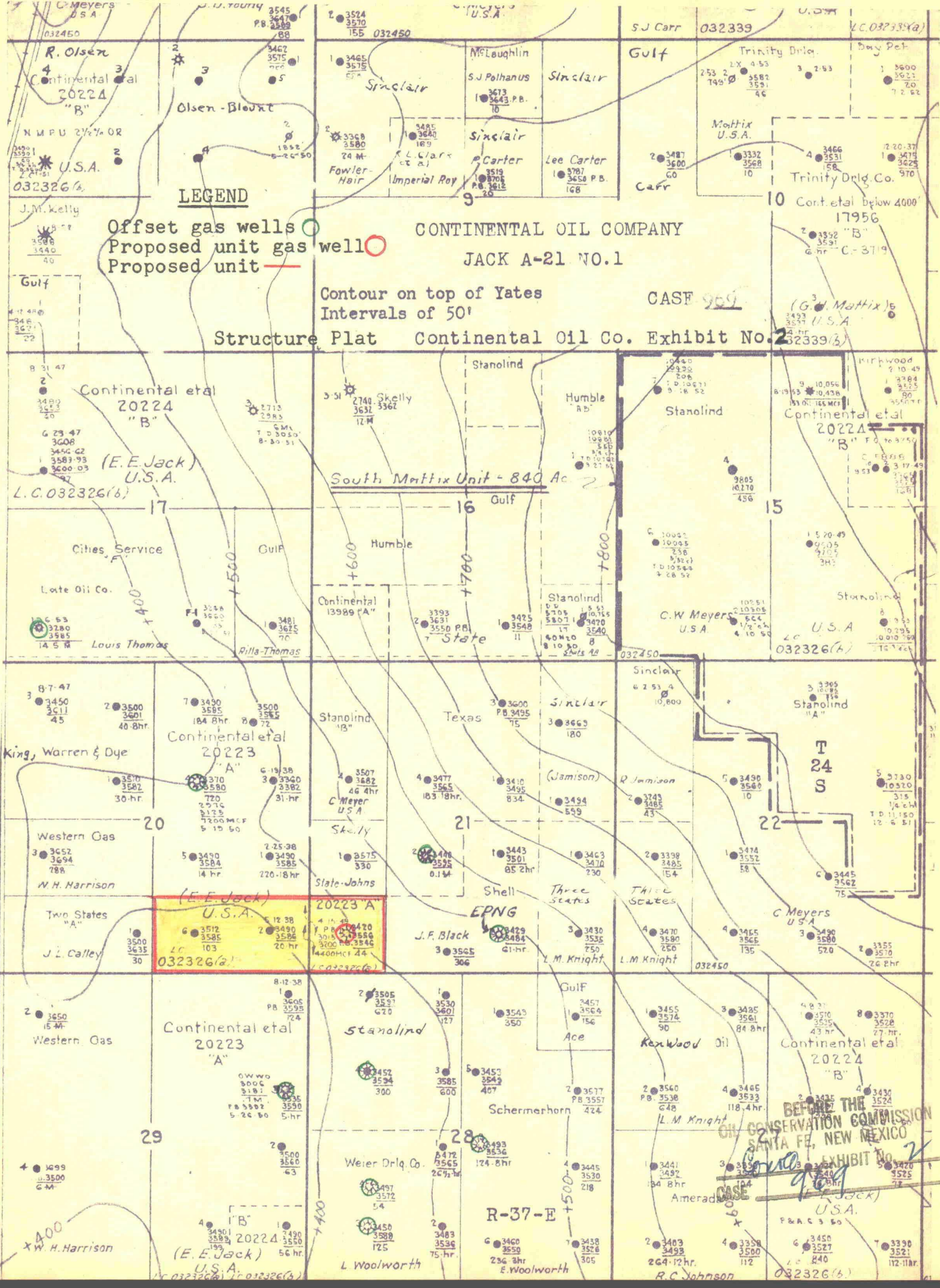


Boundary of proposed unit —
Proposed unit gas well ○ CONTINENTAL OIL COMPANY
Boundary of offsetting units — JACK A-21 NO.1
Offset gas wells ○

Location and Ownership Plat Continental Oil Co. Exhibit No. 132339(b)



BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Controlled EXHIBIT No. 969
(E.E. Jack)
U.S.A.
P & A C 3 50
032326(b)



Offset gas wells
Proposed unit gas well
Proposed unit

CONTINENTAL OIL COMPANY
JACK A-21 NO.1

Contour on top of Yates
Intervals of 50'

CASE 959

Structure Plat Continental Oil Co. Exhibit No. 2

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BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 2

R-37-E