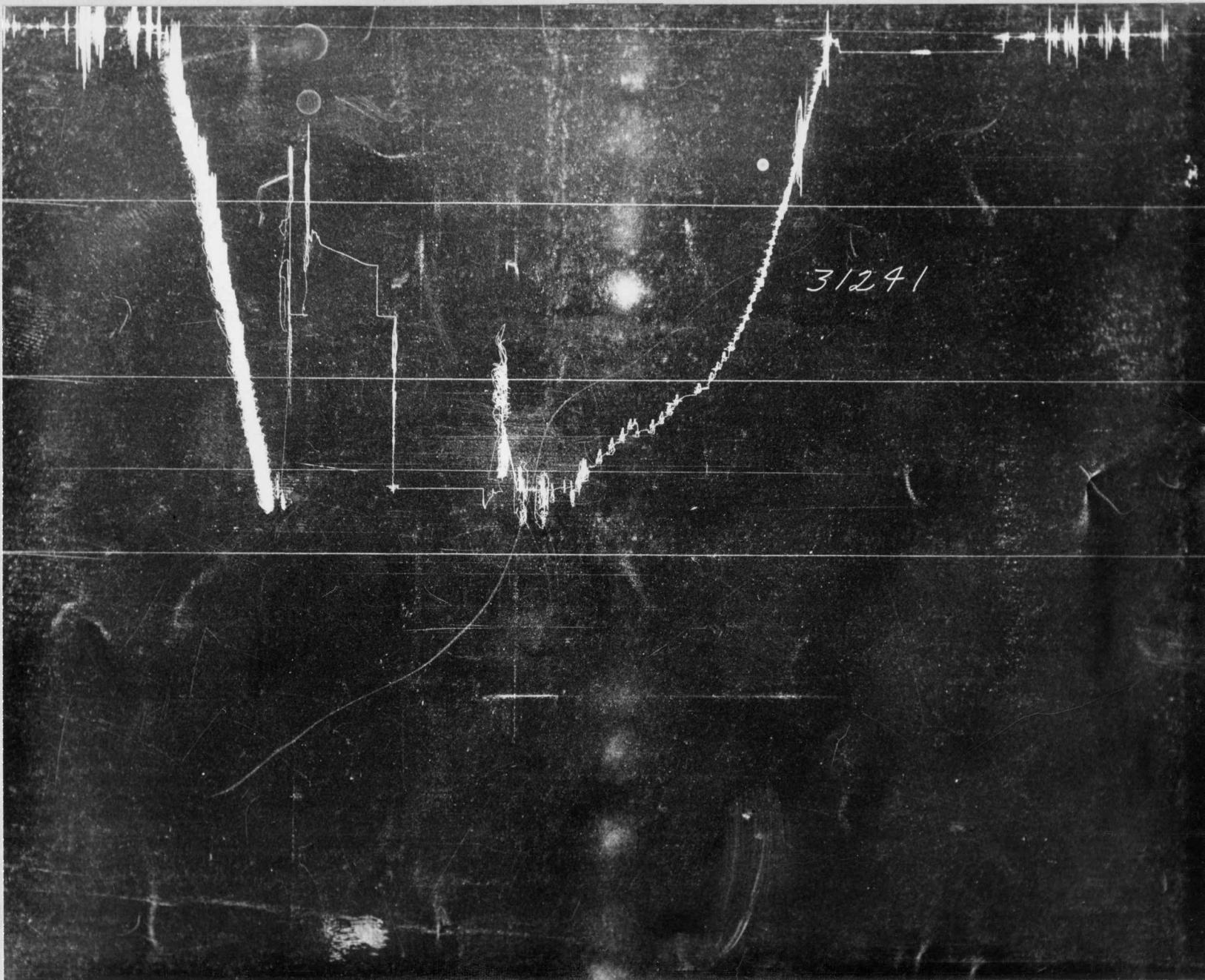




TIME

PRESSURE



Each Horizontal Line Equal to 1000 p.s.i.

Company GULF OIL CORPORATION Date 7-1-56Lease KOEHN Well No. 5 Ticket No. 31241Test No. 1

	Time	PSI
Initial Hydro Mud Pressure		2649
Initial Closed In Pressure	10 Mins.	1644
Initial Flow		1165
Final Flow	40 Mins.	1358
Final Closed In Pressure	10 Mins.	1648
Final Hydro Mud Pressure		2629

Total Depth 4967'Packer Depth 4927'BT No. 196 Depth 4916'12 Hr. Clock No. 3004Temperature Corrected to 120 ° F.

	Initial CIP			Flow Pressure			Final CIP		
	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.
P0	.000	.445	686	.000	.757	1165	.000	.883	1358
P1	.0065	1.068	1642	.0335	.764	1175	.007	1.072	1648
P2	.013	1.069	1644	.067	.813	1251	.014	1.072	1648
P3	.0195	1.069	1644	.1005	.828	1274	.021	1.072	1648
P4	.026	1.069	1644	.134	.840	1292	.028	1.072	1648
P5	.0325	1.069	1644	.1675	.854	1314	.035	1.072	1648
P6	.039	1.069	1644	.201	.869	1337	.042	1.072	1648
P7	.0455	1.069	1644	.2345	.881	1355	.049	1.072	1648
P8	.052	1.069	1644	.268	.883	1358	.056	1.072	1648
P9	.0585	1.069	1644				.063	1.072	1648
P10	.065	1.069	1644				.070	1.072	1648
	1 Minute Intervals			5 Minute Intervals			1 Minute Intervals		

Remarks: \_\_\_\_\_

# D S T A N A L Y S I S R E P O R T

DATE REPORTED November 7, 1957 DATE TESTED July 1, 1956  
 FILE NO. 0130-07-01 GAUGE NO. BT PRD 196

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation		(29S-18W) 28	Location	Formation Tested
Koehn	Company		Kiowa	Kansas
#5	Lease		County	State
Well No.	Test No.	Interval Tested <u>#1</u> <u>4927'-4967'</u>	KB 2204'	4916'
EXTRAPOLATED PRESSURE	=	1648 + ? psi	Elevation	Gauge Depth
POTENTIOMETRIC SURFACE	=	1130 + 100 ft		Extrapolated initial & final closed-in pressures disagree.
EFFECTIVE TRANSMISS.	=	--- md ft/cp	x	Insufficient data reported.
AVERAGE PERMEABILITY (Viscosity estimated from reported recovery)	=	md		Chart is unusable.
PRODUCTIVITY INDEX	=	--- B/D / psi		Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.
DAMAGE RATIO	=	---		Initial closed-in time too short for section tested and air-chamber provided.
DAMAGE EFFECT	=	none slight moderate x strong indeterminate		Closed-in pressure not taken.
x	Extrapolated pressure indefinite.			Formation fluid insufficiently sampled.
	Closed-in time insufficient.			Possibility of nearby barrier.
	Reported pressures disagree with chart.			Clock slippage indicated.
	Build-up curve susceptible to mud leakage.			Gauge friction indicated.
x	Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.			Tool disturbance indicated.
				Plugging indicated.



LOCATION Sec. 28 - 29 - 18

FIELD Wildcat

COUNTY Kiowa

STATE Kansas

CONTRACTOR Falcon - Seaboard

## MUD DATA

Kind Starch

Weight 10 lbs.-gal.

Viscosity 42 Sec.

Filter Loss 12 c. c. Filter Cake 2/32 in.

Est. Gauge Depth Temp. 121 F°

Tool Open 1 Hour

Time Closed In. 20 Minutes - Initial  
30 Minutes - Final

Depth Top Gauge 4979' Ft.

BT. P. R. D. No. 311 Blanked Off No

12 Hr. Clock No. 2055

Pressure Readings Field

Initial Hydro Mud Pressure 2708

Initial Flow. Pres. 55

Final Flow Pres. 135

Closed in Pres. 1668

Final Hydro Mud Pressure -

## HOLE &amp; TOOL DATA

Total Depth 4990' Casing Perforations

Top  
Bottom

Top Packer Depth 4967' Bottom Packer Depth -

-

Casing or Hole Size 7 7/8" Liner or Rathole Size -

-

Formation Tested Mississippian

Size Drill Pipe 4 1/2" API FH Size Drill Collars -

-

Size Bottom Choke 3/4" Size Surface Choke 1"

Size Hook Wall Packer - Size Rings - No. Rings -

Size &amp; Type Wall Packer 6 3/4" E.S.A. No. Packers 1

-

Size &amp; Length Anchor 5" x 23'

-

Depth Bottom Gauge 4984' Ft. Amount of Cushion 15'

-

BT. P. R. D. No. 196 Blanked Off Yes

-

REMARKS: Set packer, opened tool and took a 20

12 Hr. Clock No. 3004

-

minute closed in pressure. Dropped bar and broke disc.

Office Corrected Field

-

Recovered 210' of muddy salt water. Disc sub run

2719 2733 p.s.i.

-

31.64' above tester.

50 52 p.s.i.

-

KBE 2204'

134 137 p.s.i.

-

Initial 1653 p.s.i.

-

Final 1615 p.s.i.

-

2618 2632 p.s.i.

-

All depths measured from Kelly Bushing

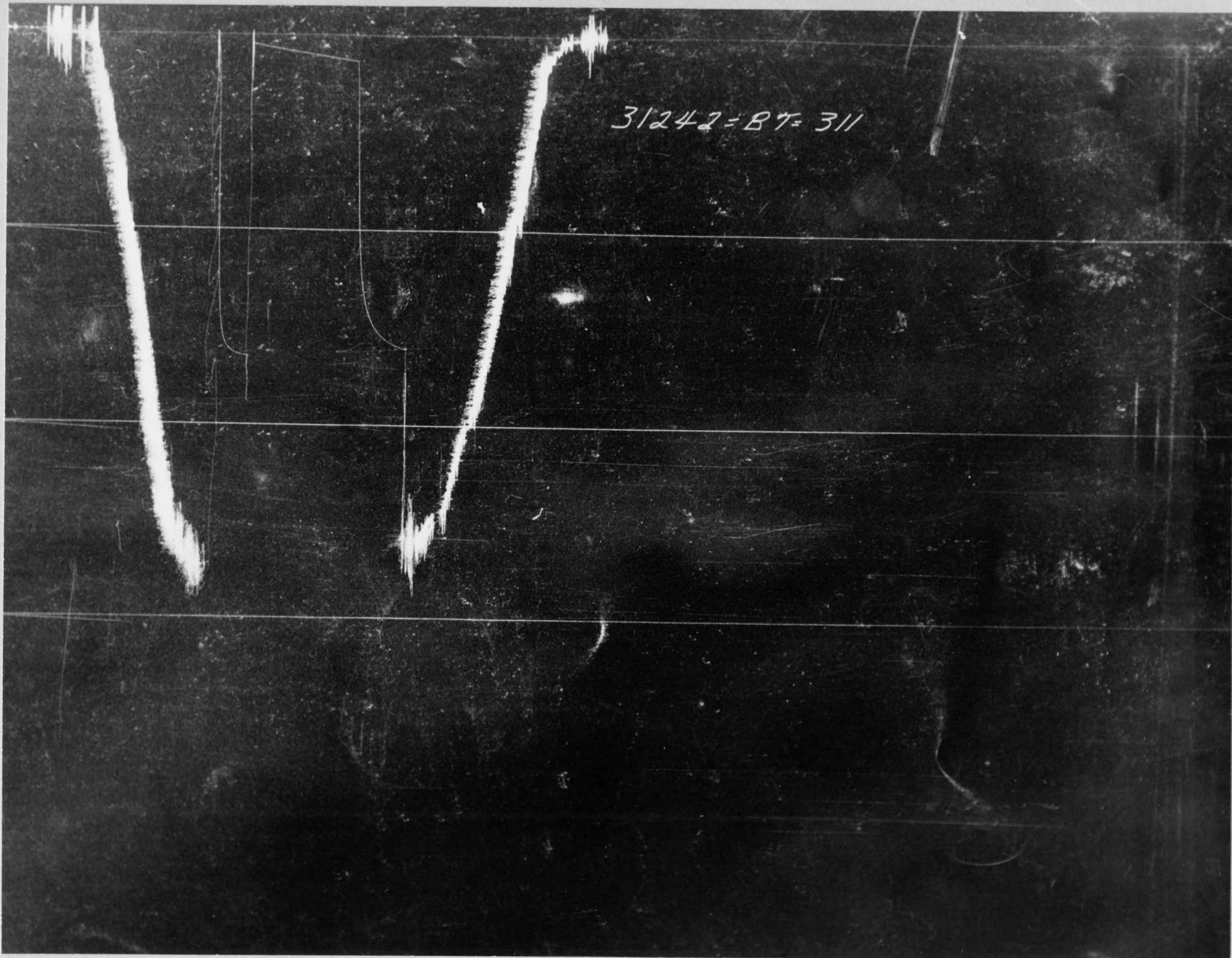
No. Folders Reproduced

5

Top Recorder

TIME

PRESSURE



Each Horizontal Line Equal to 1000 p.s.i.

KOEHN  
LEASE

5  
WELL NO.

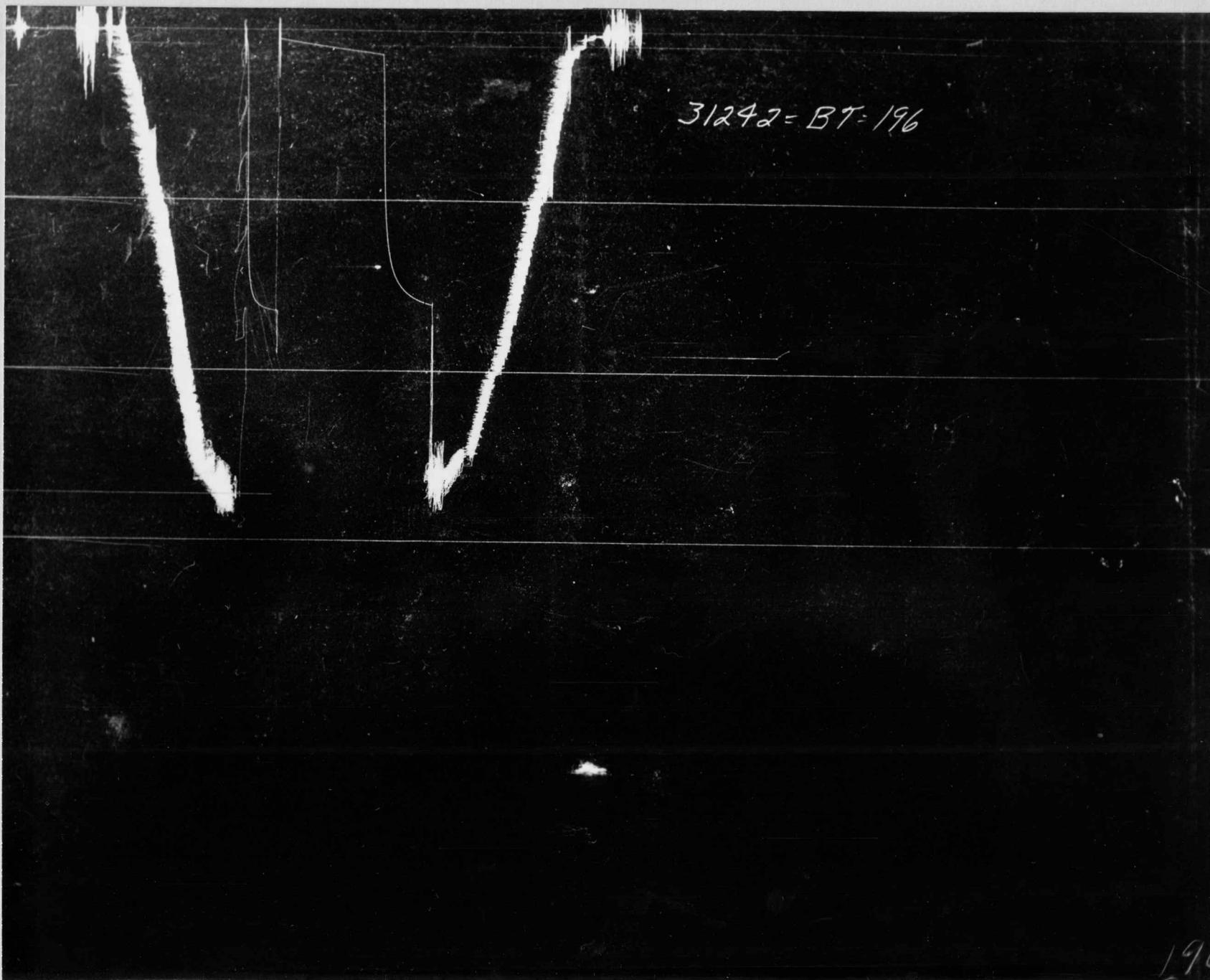
2  
TEST NO.

GULF OIL CORPORATION  
COMPANY

WICHITA  
DISTRICT

Bottom Recorder

TIME



Each Horizontal Line Equal to 1000 p.s.i.

Company GULF OIL CORPORATION Date 7-1-56Lease KOEHN Well No. 5 Ticket No. 31242Test No. 2

	Time	PSI
Initial Hydro Mud Pressure		2733
Initial Closed In Pressure	20 Mins.	1653
Initial Flow		52
Final Flow	60 Mins.	137
Final Closed In Pressure	30 Mins.	1615
Final Hydro Mud Pressure		2632

Total Depth 4990'Packer Depth 4967'BT No. 196 Depth 4984'12 Hr. Clock No. 3004Temperature Corrected to 121 ° F.

	Initial CIP			Flow Pressure			Final CIP		
	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.
P0	.000	.000	000	.000	.034	52	.000	.089	137
P1	.0135	.192	296	.102	.049	76	.020	.736	1132
P2	.027	.955	1469	.204	.063	97	.040	.885	1362
P3	.0405	1.020	1569	.306	.076	117	.060	.950	1462
P4	.054	1.046	1609	.408	.089	137	.080	.980	1508
P5	.0675	1.057	1625				.100	1.001	1540
P6	.081	1.064	1636				.120	1.018	1566
P7	.0945	1.068	1642				.140	1.029	1583
P8	.108	1.071	1647				.160	1.038	1596
P9	.1215	1.074	1651				.180	1.045	1607
P10	.135	1.075	1653				.200	1.050	1615
	2 Minute Intervals			15 Minute Intervals			3 Minute Intervals		

Remarks:

Company GULF OIL CORPORATION Date 7-1-56

Lease KOEEHN Well No. 5 Ticket No. 31242

Test No. 2

	Time	PSI
Initial Hydro Mud Pressure		2719
Initial Closed In Pressure	20 Mins.	1647
Initial Flow		50
Final Flow	60 Mins.	134
Final Closed In Pressure	30 Mins.	1608
Final Hydro Mud Pressure		2618

Total Depth 4990'

Packer Depth 4967'

BT No. 311 Depth 4979'

12 Hr. Clock No. 2055

Temperature Corrected to 121 ° F.

	Initial CIP			Flow Pressure			Final CIP		
	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.
P0	.000	.000	000	.000	.037	50	.000	.099	134
P1	.013	.789	1062	.1035	.054	73	.020	.848	1142
P2	.026	1.105	1488	.207	.069	93	.040	1.010	1360
P3	.039	1.172	1578	.3105	.084	114	.060	1.081	1456
P4	.052	1.191	1604	.414	.099	134	.080	1.117	1504
P5	.065	1.202	1619				.100	1.142	1538
P6	.078	1.210	1630				.120	1.158	1559
P7	.091	1.216	1638				.140	1.171	1577
P8	.104	1.220	1643				.160	1.181	1591
P9	.117	1.222	1646				.180	1.188	1600
P10	.130	1.223	1647				.200	1.194	1608
	2 Minute Intervals			15 Minute Intervals			3 Minute Intervals		

Remarks:

# D S T A N A L Y S I S R E P O R T

DATE REPORTED November 7, 1957

DATE TESTED July 1, 1956

FILE NO. 0130-07-02

GAUGE NO. BT PRD 196

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation			(29S-18W) 28	Formation Tested
Company	Location	Formation Tested		
Koehn	Kiowa	Kansas		
#5	Lease	County	State	
Well No.	Test No.	Interval Tested	Elevation	Gauge Depth
EXTRAPOLATED PRESSURE	= 1700	± ? psi	x	Extrapolated initial & final closed-in pressures disagree.
POTENTIOMETRIC SURFACE	= 1180	± 200 ft		Insufficient data reported.
EFFECTIVE TRANSMISS.	= 44.8	md ft/cp		Chart is unusable.
AVERAGE PERMEABILITY				Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.
(Viscosity estimated from reported recovery)	=	md	x	Initial closed-in time too short for section tested and air-chamber provided.
PRODUCTIVITY INDEX	= 0.0459	B/D / psi		Closed-in pressure not taken.
DAMAGE RATIO	= 1.11			Formation fluid insufficiently sampled.
DAMAGE EFFECT	= x	none slight moderate		Possibility of nearby barrier.
		x		Clock slippage indicated.
		strong indeterminate		Gauge friction indicated.
x	Extrapolated pressure indefinite.			Tool disturbance indicated.
x	Closed-in time insufficient.			Plugging indicated.
	Reported pressures disagree with chart.			
	Build-up curve susceptible to mud leakage.			
	Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.			

# D S T A N A L Y S I S R E P O R T

DATE REPORTED November 7, 1957

DATE TESTED July 1, 1956

FILE NO. 0130-07-02

GAUGE NO. BT-PRD 311

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation  
Company

(29S - 18W) 28

Location

Formation Tested

Koehn Lease

#5 #2 Well No. Test No.

4967' - 4990' Interval Tested

EXTRAPOLATED PRESSURE = 1700 + ? psi

POTENTIOMETRIC SURFACE = 1190 + 200 ft

EFFECTIVE TRANSMISS. = 38.8 md ft/cp

#### AVERAGE PERMEABILITY

(Viscosity estimated from  
reported recovery) = ..... md

PRODUCTIVITY INDEX = .0458 B/D / psi

DAMAGE RATIO = 0.96

DAMAGE EFFECT = x  
none slight moderate  
x  
strong indeterminate

x Extrapolated pressure indefinite.

x Closed-in time insufficient.

..... Reported pressures disagree with chart.

..... Build-up curve susceptible to mud leakage.

x Mud pressure from chart does not agree  
with mud pressure calculated from re-  
ported mud weight.

Kiowa County

KB: 2204'

Elevation

Kansas State

4979'

Gauge Depth

x Extrapolated initial & final  
closed-in pressures disagree.

..... Insufficient data reported.

..... Chart is unusable.

..... Insufficient air-chamber, or  
leakage into air-chamber,  
for initial closed-in time.

x Initial closed-in time too  
short for section tested and  
air-chamber provided.

..... Closed-in pressure not taken.

..... Formation fluid insuffi-  
ciently sampled.

..... Possibility of nearby  
barrier.

..... Clock slippage indicated.

..... Gauge friction indicated.

..... Tool disturbance indicated.

..... Plugging indicated.