
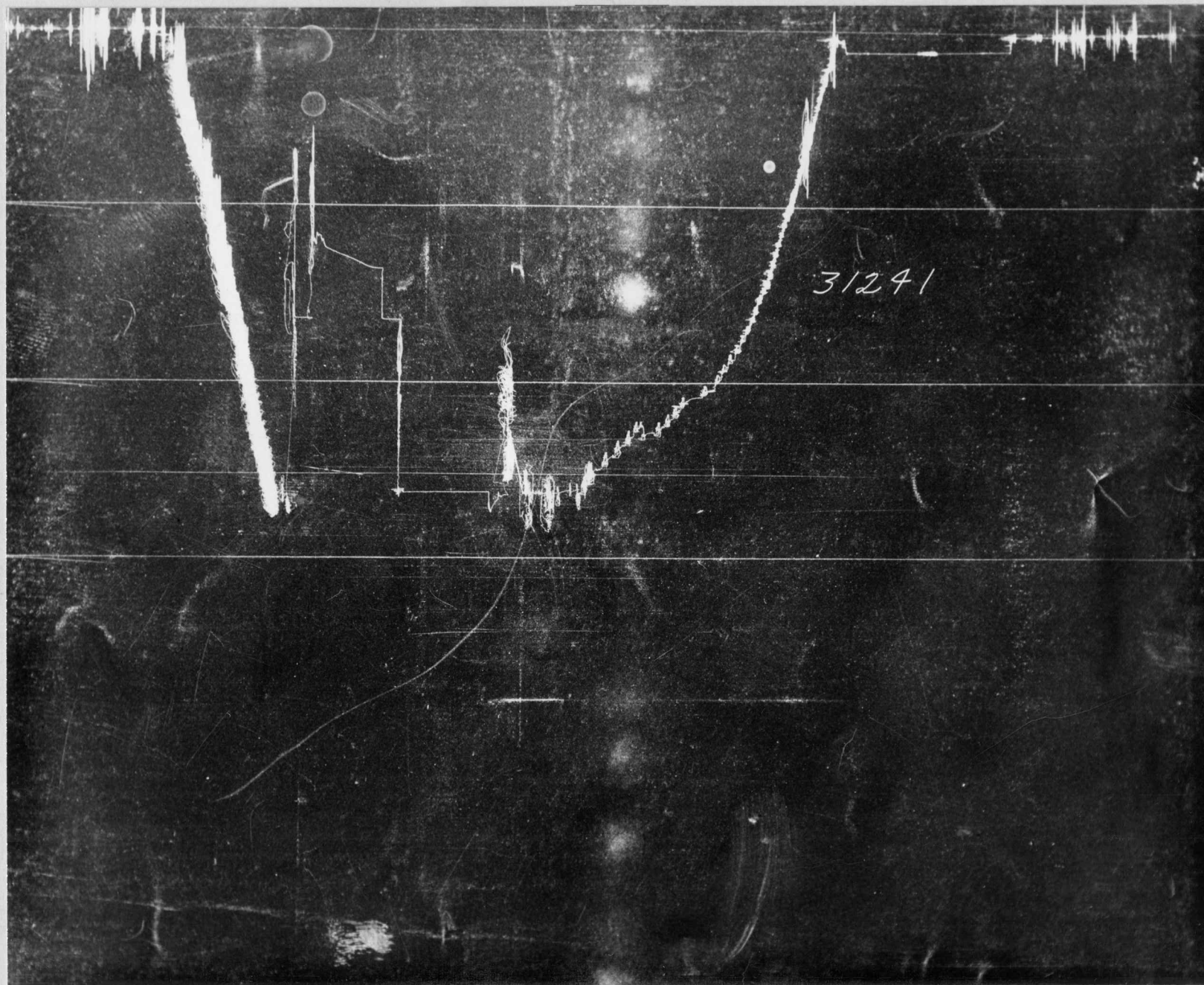


LOCATION	Sec. 28 - 29 - 18		 OIL WELL CEMENTING CO.		Date	7-1-56
FIELD	Wildcat				Ticket No.	31241
COUNTY	Kiowa				HOWCO DISTRICT	Pratt
STATE	Kansas		HOLE AND TOOL DATA		Kind of Job	Open Hole Test
CONTRACTOR	Falcon - Seaboard		Total Depth	4967'	Casing Perforations	Top Bottom
MUD DATA			Top Packer Depth	4927'	Bottom Packer Depth	-
Kind	Starch Base		Casing or Hole Size	7 7/8"	Liner or Rathole Size	-
Weight	10	lbs.-gal.	Formation Tested	Mississippian		Extra Folder Charge
Viscosity	42	Sec.	Size Drill Pipe	4 1/2" API FH	Size Drill Collars	5 3/4" x 300'
Filter Loss	12	c. c. Filter Cake 2/32 in.	Size Bottom Choke	3/4"	Size Surface Choke	1"
Est. Gauge Depth Temp.	121	F°	Size Hook Wall Packer	-	Size Rings	-
Time Tool Open	40 Minutes		Size & Type Wall Packer	6 3/4" E.S.A.	No. Packers	1
Time Closed In.	10 Minutes - Initial		Size & Length Anchor	5" x 40'	Total \$215.00	
Depth BT. Gauge	4916'		PRD Device No.	1987	Depth	4962'
BT. P. R. D. No.	196	Blanked Off No	REMARKS:		Blanked Off	Yes
12	Hr. Clock No.	3004	Set packer, opened tool and took a 10 minute closed in pressure.			
Pressure Readings			Dropped bar and broke disc and received gas to surface in 3 minutes,			
Field			measuring approximately 98,000 Cu. Ft. Recovered 180' of oil.			
Initial Hydro Mud Pressure	2688	2649 p.s.i.	KBE 2204'			
Initial Flow Pres.	1234	1165 p.s.i.				
Final Flow Pres.	1355	1358 p.s.i.				
Closed in Pres.	1662	1644 Initial				
	1662	1648 Final				
Final Hydro Mud Pressure	-	2649 p.s.i.	Amount of Cushion	None	All depths measured from	Kelly Bushing
			No. Folders Reproduced			5

TIME

PRESSURE



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

Company GULF OIL CORPORATIONDate 7-1-56Lease KOEHNWell No. 5Ticket 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.
PO	.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.

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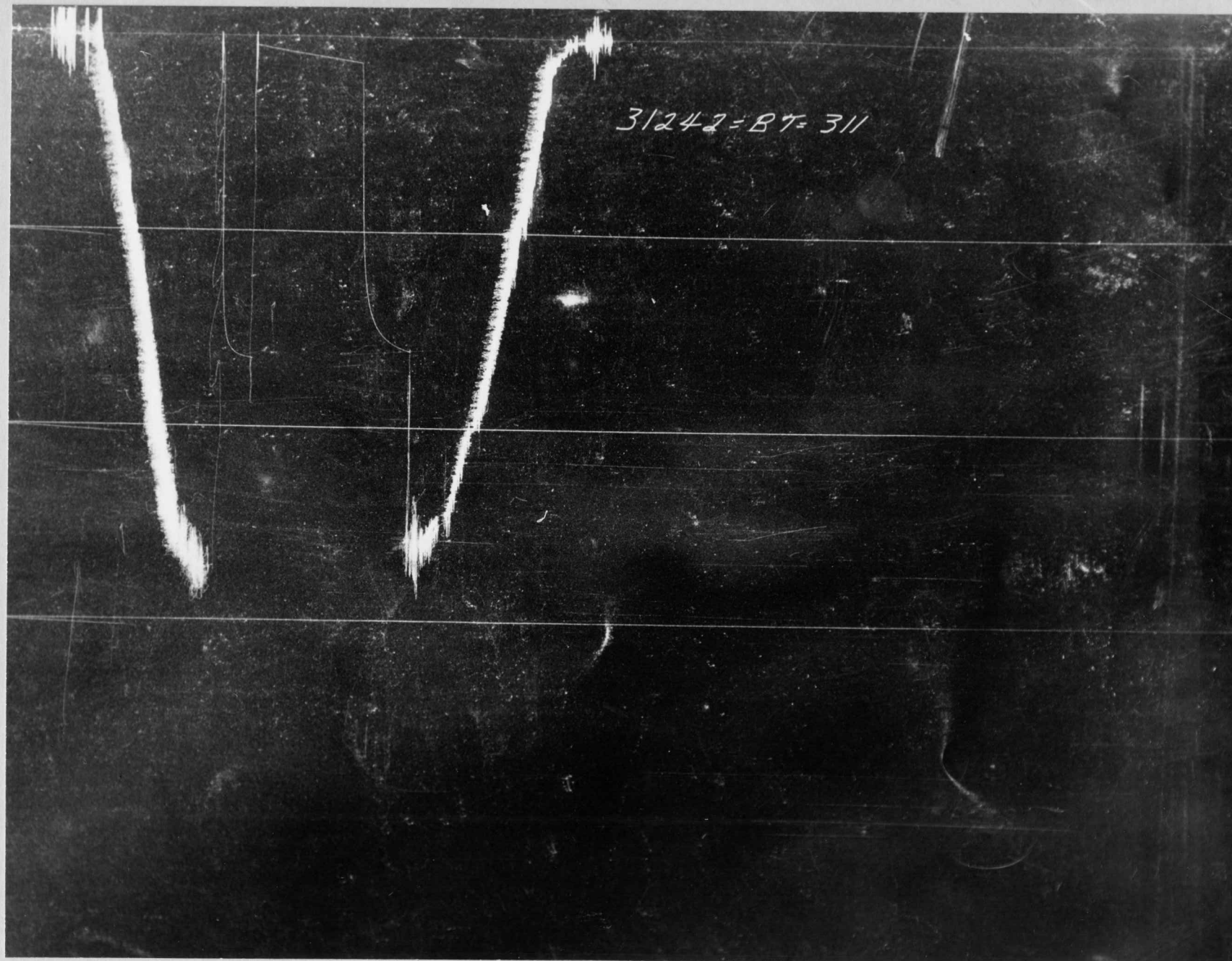
PETROLEUM RESEARCH CORPORATION

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

LOCATION	Sec. 28 - 29 - 18		 OIL WELL CEMENTING CO.		Date	7-1-56
FIELD	Wildcat				Ticket No.	31242
COUNTY	Kiowa				HOWCO DISTRICT	Pratt
STATE	Kansas				Kind of Job	Open Hole Test
CONTRACTOR	Falcon - Seaboard		HOLE & 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		Price	\$215.00
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. Bottom Gauge 4984' Ft. Amount of Cushion 15'		Second Packer Assembly	
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. Bottom Gauge 4984' Ft. Amount of Cushion 15'			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 & Type Wall Packer 6 3/4" E.S.A. No. Packers 1 Size & Length Anchor 5" x 23'		Safety Joint	
BT. P. R. D. No. 311 Blanked Off No 12 Hr. Clock No. 2055			BT. P. R. D. No. 196 Blanked Off Yes 12 Hr. Clock No. 3004		Extra Folder Charge	
Pressure Readings Field Office Corrected Initial Hydro Mud Pressure 2708 2719 Initial Flow. Pres. 55 50 Final Flow Pres. 135 134 Closed in Pres. 1668 1647 1615 1608 Final Hydro Mud Pressure - 2618			Initial 1653 Final 1615 Initial 2733 p.s.i. 31.64' above tester. 52 p.s.i. KBE 2204' 137 p.s.i. 2632 p.s.i. All depths measured from Kelly Bushing		Jars	
Total 2055 Witnessed By Paul Smith			Total 3004 Tester V. E. Snidle		Total	\$215.00
REMARKS: Set packer, opened tool and took a 20 minute closed in pressure. Dropped bar and broke disc. Recovered 210' of muddy salt water. Disc sub run					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.

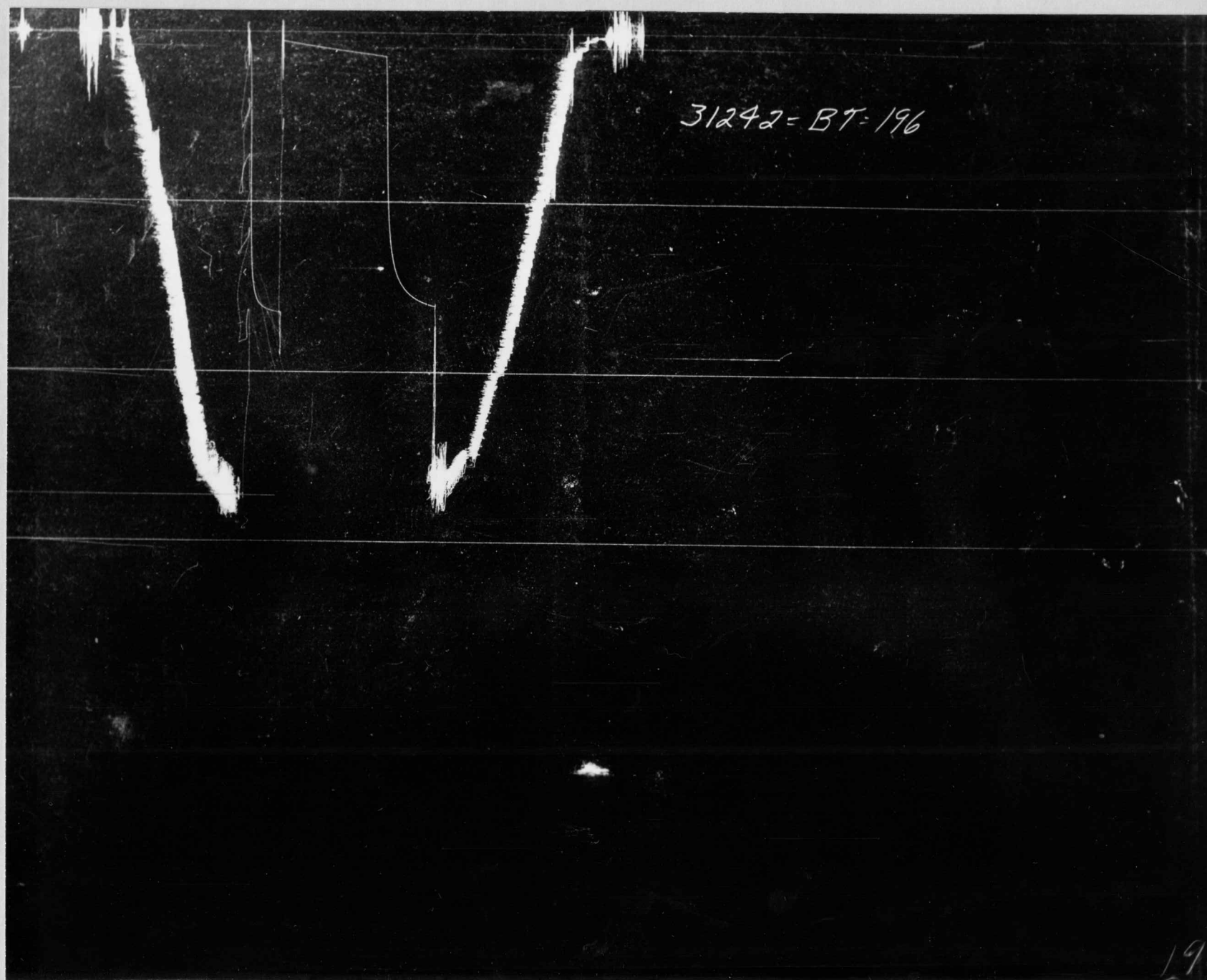
GULF OIL CORPORATION
COMPANY

WICHITA
DISTRICT

Bottom Recorder

TIME

PRESSURE



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

196

Company GULF OIL CORPORATION Date 7-1-56

Lease KOEHN Well No. 5 Ticket No. 31242

Test 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. 3004

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.
PO	.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 CORPORATIONDate 7-1-56Lease KOEHN Well No. 5Ticket No. 31242Test No. 2Total Depth 4990'Packer Depth 4967'BT No. 311 Depth 4979'12 Hr. Clock No. 2055Temperature
Corrected to 121 ° F.

	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

	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.
PO	.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		
Company			Location	Formation Tested	
Koehn			Kiowa	Kansas	
Lease			County	State	
#5	#2	4967'-4990'	KB 2204'	4984'	
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 (Viscosity estimated from reported recovery)	=	md		Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.	
PRODUCTIVITY INDEX	=	0.0459 B/D / psi	x	Initial closed-in time too short for section tested and air-chamber provided.	
DAMAGE RATIO	=	1.11		Closed-in pressure not taken.	
DAMAGE EFFECT	=	x none slight moderate x strong indeterminate		Formation fluid insufficiently sampled.	
x	Extrapolated pressure indefinite.			Possibility of nearby barrier.	
x	Closed-in time insufficient.			Clock slippage indicated.	
	Reported pressures disagree with chart.			Gauge friction indicated.	
	Build-up curve susceptible to mud leakage.			Tool disturbance indicated.	
	Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.			Plugging indicated.	

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			(29S - 18W) 28		
Company			Location	Formation Tested	
<u>Koehn</u>			<u>Kiowa</u>	<u>Kansas</u>	
Lease			County	State	
<u>#5</u>			<u>KB: 2204'</u>	<u>4979'</u>	
Well No.	Test No.	Interval Tested	Elevation	Gauge Depth	
EXTRAPOLATED PRESSURE	=	<u>1700 ± ?</u> psi	x	Extrapolated initial & final closed-in pressures disagree.	
POTENTIOMETRIC SURFACE	=	<u>1190 ± 200</u> ft		Insufficient data reported.	
EFFECTIVE TRANSMISS.	=	<u>38.8</u> md ft/cp		Chart is unusable.	
AVERAGE PERMEABILITY (Viscosity estimated from reported recovery)	=	_____ md		Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.	
PRODUCTIVITY INDEX	=	<u>.0458</u> B/D / psi		Initial closed-in time too short for section tested and air-chamber provided.	
DAMAGE RATIO	=	<u>0.96</u>	x	Closed-in pressure not taken.	
DAMAGE EFFECT	=	x none slight moderate strong indeterminate		Formation fluid insufficiently sampled.	
x		Extrapolated pressure indefinite.		Possibility of nearby barrier.	
x		Closed-in time insufficient.		Clock slippage indicated.	
		Reported pressures disagree with chart.		Gauge friction indicated.	
		Build-up curve susceptible to mud leakage.		Tool disturbance indicated.	
x		Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.		Plugging indicated.	