



Home Office: Great Bend, Kansas
P.O. Box 393 Telephone 7903

COMPANY GULF OIL CORPORATION WELL Thorn #1
DATE August 10, 1956 COUNTY Kiowa STATE Kansas
TEST NO. #2 TICKET NO. 5324 TYPE TEST Open-hole (Conventional)
TEST APPROVED BY T. Terrel WESTERN REPRESENTATIVE Robert D. Ives

TEST DATA:

Tested From 4975' To 4996' Depth 4996'
Hydrostatic Mud Pressure—Initial (A) 2760# Final (B) 2760#
Flow Pressure—Initial (B) 950# Final (C) 1130#
Bottom Hole Pressure—Initial (F) 1620# Final (D) 1620#
Tool Open - Hr. 23 Min.; Shut-in-Initial Hr. Min.; Shut-in-Final - Hr. 30 Min.
Chokes; Surface 1/2" Bottom 3/4" Fluid Cushion: Type None Amount _____
Recovery:

Flowed

SURFACE DATA:

BLOW: Strong; gas to surface in 2 1/2 minutes. Mud flowed in 11 minutes, oil flowed in 13 minutes.

Maximum Surface Pressure _____ Did Well Flow? Yes

Description of Flow	Time	Max. Pressure	Size Surface Choke
<u>Gas in</u>	<u>11 minutes</u>	_____	_____
<u>Oil in</u>	<u>13 minutes</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

GENERAL OPERATIONAL DATA:

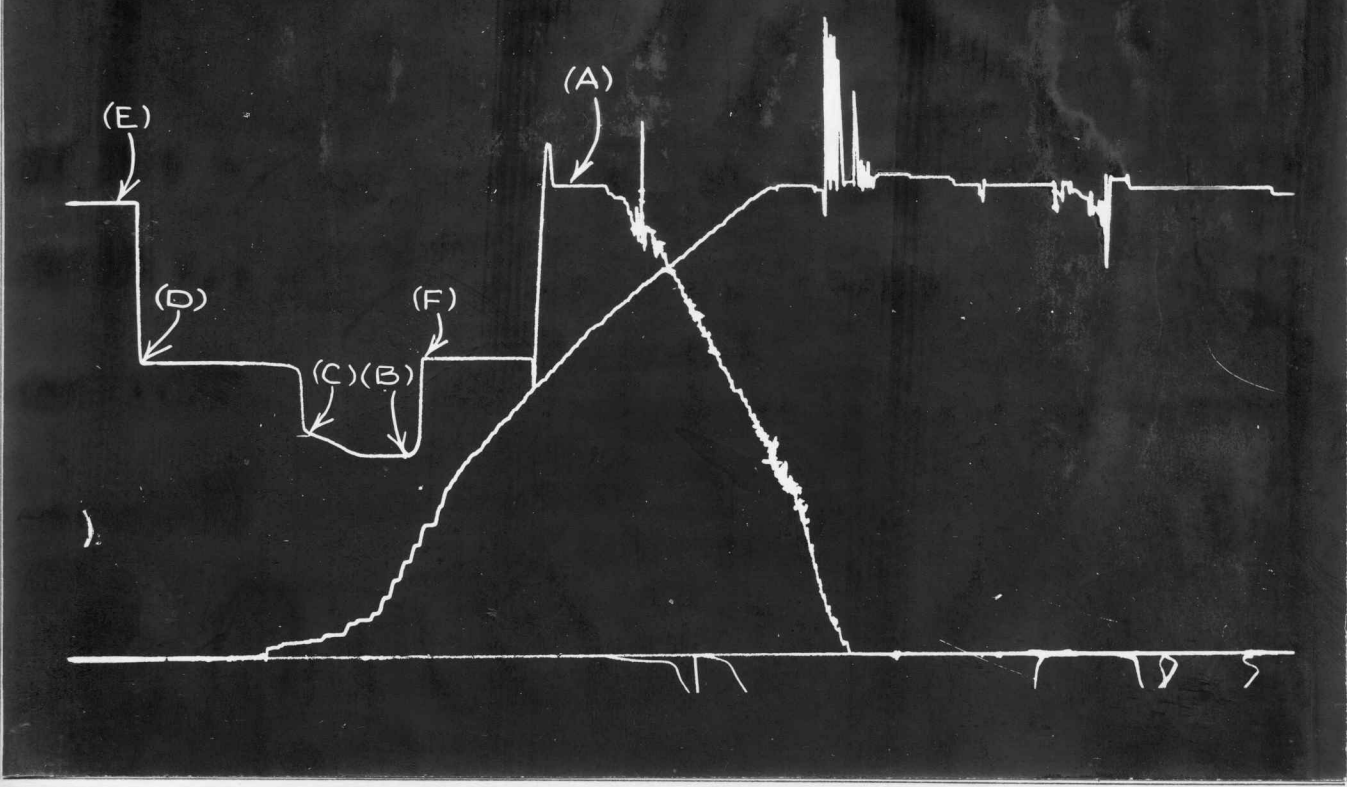
Hole Size: Main Hole 7-7/8" Rat Hole _____ Drill Pipe Size 4 1/2" F. H.
Hole Condition Good Mud Weight 10.1# Viscosity 41
Type Pressure Recorder Western Recorder No. 27 & 28 Date Calib. 6-12-56
Extra Equipment: Dual Packer No Jars Yes Safety Joint No
Was Test Recovery Reversed Out? Yes Bottom Hole Temperature 121°
Number of Copies Requested _____

REMARKS:

W. L. - 9.6 C.C.

GULF OIL CORP.
THORN #1

TEST #2
TKT 5324



This is an actual photograph of recorder chart.

PRESSURE DATA

	Point	Pressure
(A) Initial Hydrostatic Mud	2760#	
(B) Initial Flow	950#	
(C) Final Flow	1130#	
(D) Final Shut-In	1620#	
(E) Final Hydrostatic Mud	2760#	
(F) Initial Shut-In	1620#	

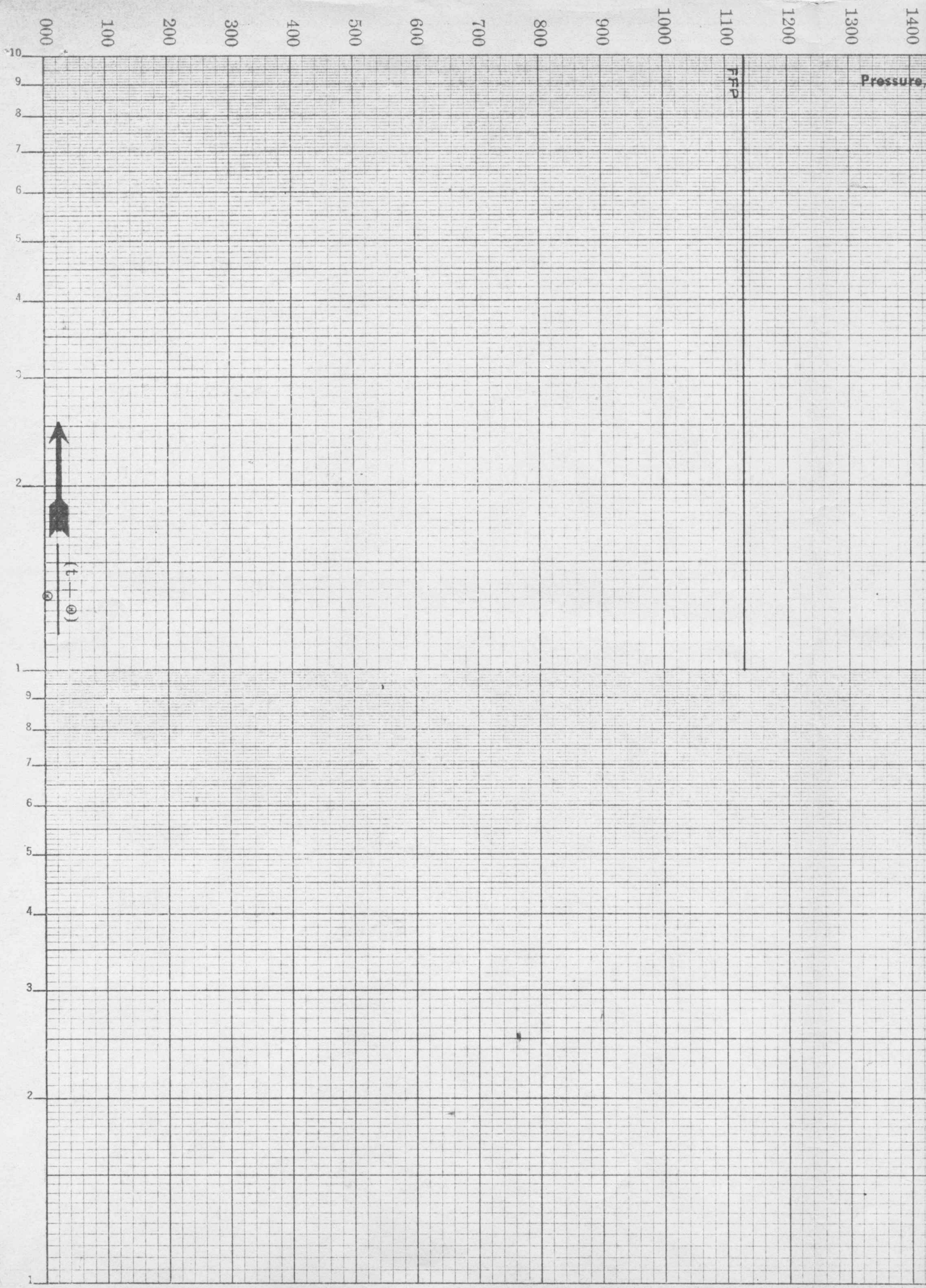
Company Gulf Oil Corp Well Thorn #1
Test No. #2 Ticket No. 5324 Date 9-10-56
Depth 4996 Tested From 4975 To 4996
Hydrostatic Mud Pressure-Initial 2760 Final _____
Flo Pressure-Initial 950 Final 1130
Bottom Hole Pressure-Initial 1620 Final 1120
Surface Pressure _____ Chokes-Top 2 Bottom 3/4
Recorder No. 27-28 Date Calibrated 6-12-56

Recovery: 635 TO SURFACE IN 22 MIN.

Flowed Mud in 11 Min. Oil in 13 Min.

hole cond good.

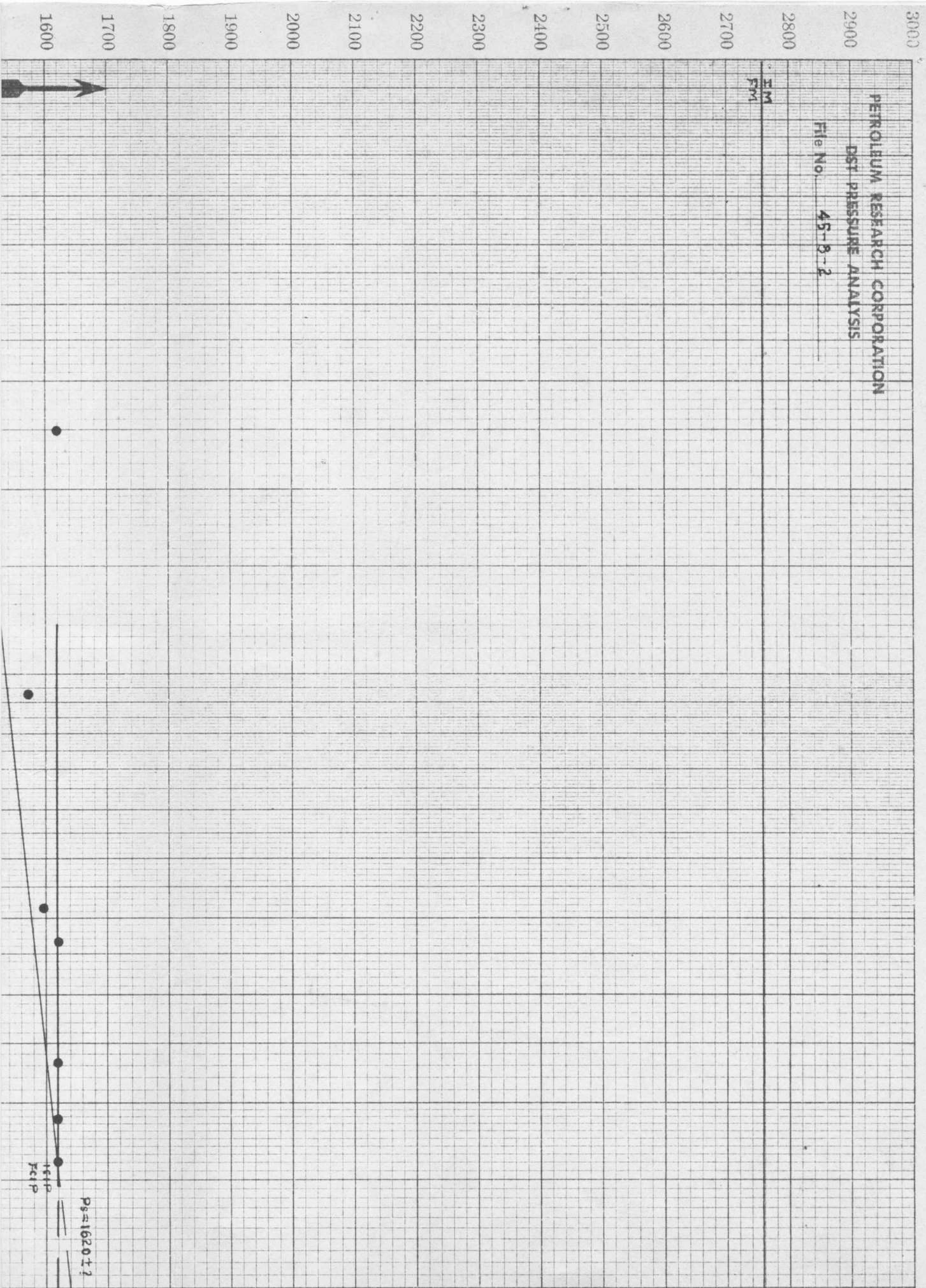
SEMI-LOGARITHMIC 359-61LG
KEUFFEL & ESSER CO. MADE IN U.S.A.
2 CYCLES X 150 DIVISIONS



PETROLEUM RESEARCH CORPORATION
DST PRESSURE ANALYSIS

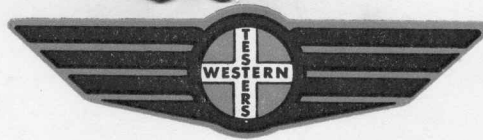
File No. 45-8-2

EM
FM



Ps=162012

1411P
1412P



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COMPANY GULF OIL CORPORATION WELL Thorn #1
DATE August 11, 1956 COUNTY Kiowa STATE Kansas
TEST NO. #3 TICKET NO. 6126-K TYPE TEST Open-hole (Conventional)
TEST APPROVED BY P. L. Miller WESTERN REPRESENTATIVE Ed Schonhoff

TEST DATA:

Tested From 4996' To 5016' Depth 5016'
Hydrostatic Mud Pressure—Initial (A) 2780# Final (E) 2780#
Flow Pressure—Initial (B) 470# Final (C) 1080#
Bottom Hole Pressure—Initial (F) 1690# Final (D) 1640#
Tool Open - Hr. 47 Min.; Shut-in-Initial Hr. Min.; Shut-in-Final - Hr. Min.
Chokes; Surface 1" Bottom 3/4" Fluid Cushion: Type None Amount

Recovery:

Flowed Gassy oil in 35 minutes
90' Oil and gas cut foam
Estimated Oil - 8 barrels per hour
Estimated Gas - 250,000 cubic feet per day

SURFACE DATA:

BLOW: Strong; gas to surface in 4 minutes, oil to surface in 35 minutes.

Maximum Surface Pressure _____ Did Well Flow? Yes

Description of Flow	Time	Max. Pressure	Size Surface Choke
<u>Gas</u>	<u>5 minutes</u>	<u>62,000 cubic feet per day</u>	<u>1"</u>
	<u>10 minutes</u>	<u>44,000 cubic feet per day</u>	
	<u>15 minutes</u>	<u>Too weak to measure</u>	
<u>Mud flowed in 32 minutes</u>	<u>Oil flowed in 35 minutes.</u>		

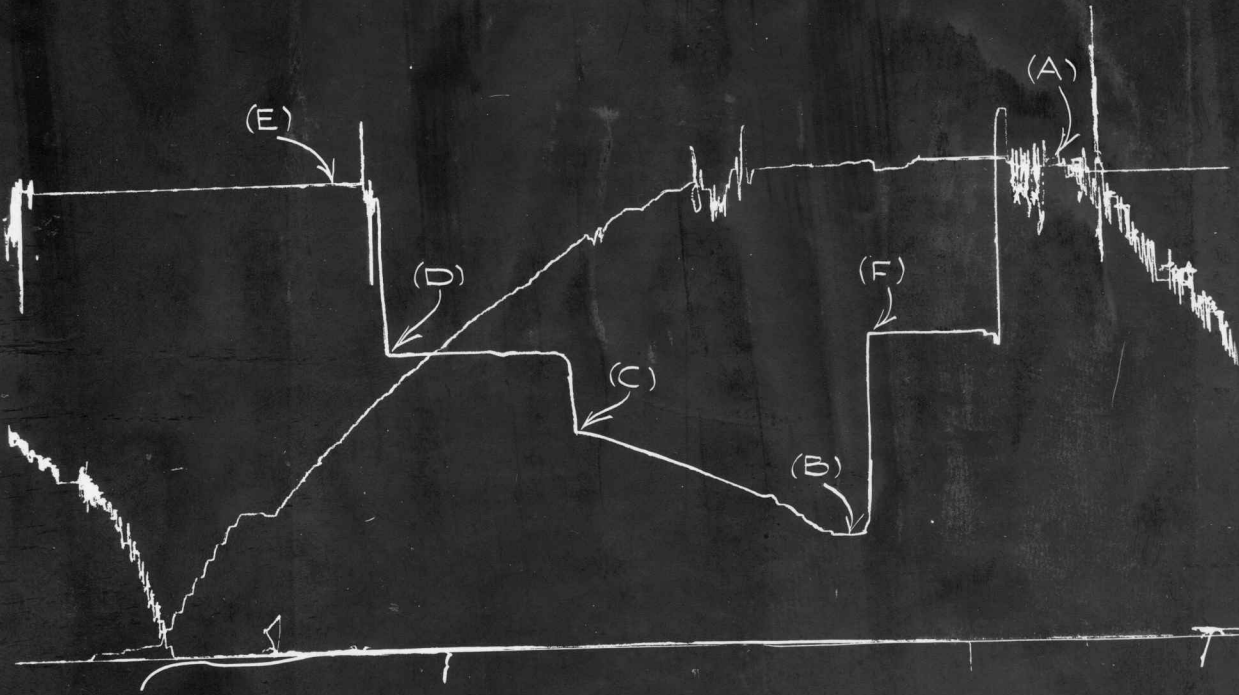
GENERAL OPERATIONAL DATA:

Hole Size: Main Hole 7-7/8" Rat Hole _____ Drill Pipe Size 4 1/2" F. H.
Hole Condition Good Mud Weight 10.0# Viscosity 41
Type Pressure Recorder Western Recorder No. 25 & 26 Date Calib. 7-19-56
Extra Equipment: Dual Packer No Jars Yes Safety Joint No
Was Test Recovery Reversed Out? Yes Bottom Hole Temperature 123
Number of Copies Requested _____

REMARKS:

GULF OIL CORP.
THORN #1

TEST #3
TKT 6126-K



This is an actual photograph of recorder chart.

PRESSURE DATA

(A) Initial Hydrostatic Mud	2780#
(B) Initial Flow	470#
(C) Final Flow	1080#
(D) Final Shut-In	1640#
(E) Final Hydrostatic Mud	2780#
(F) Initial Shut-In	1690#

Point

Pressure

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

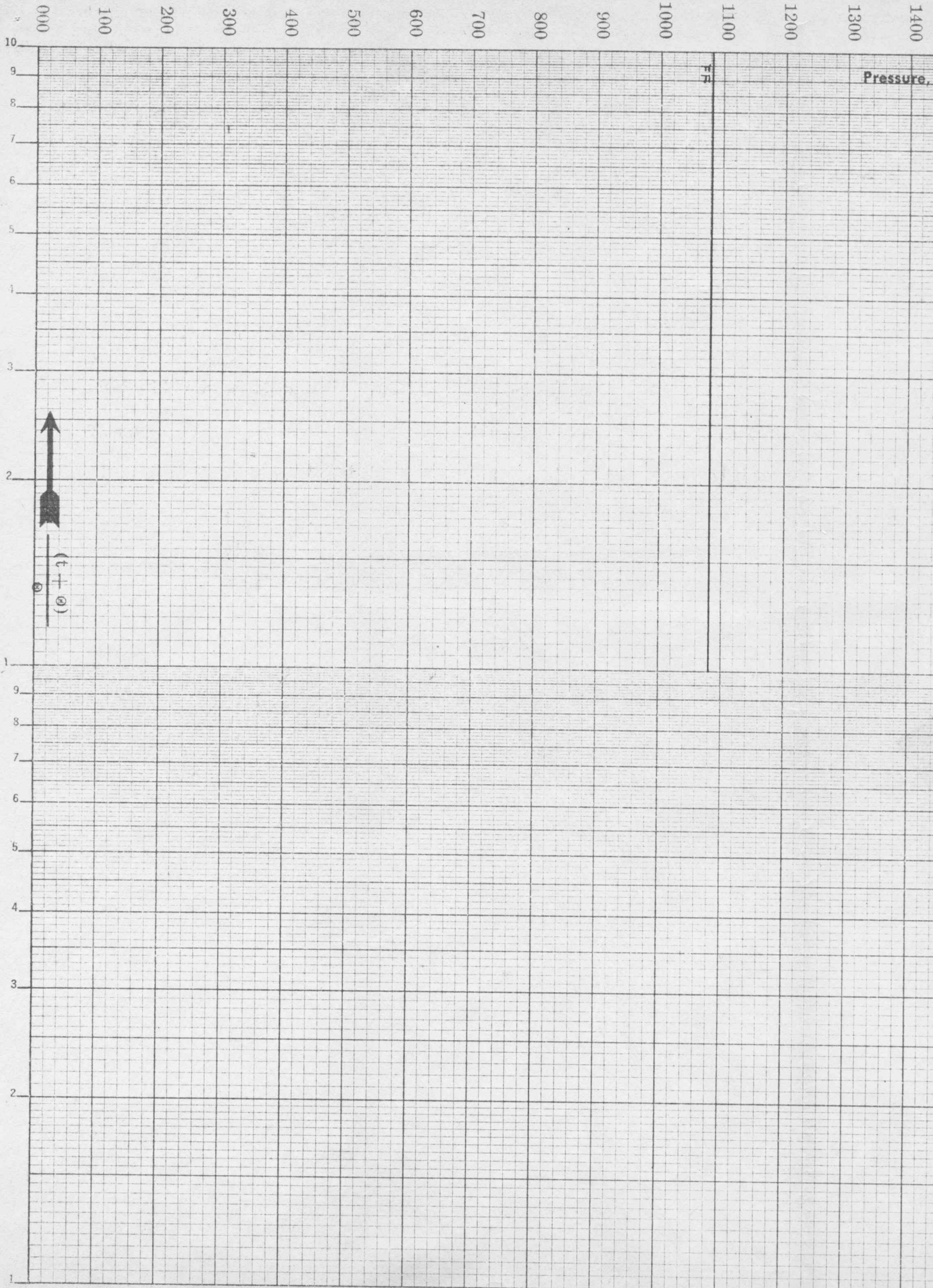
Company GULF OIL CORP Well THORN #1
Test No. 3 Ticket No. 6126 Date 8-11-56
Depth 5016 Tested From 4996 To 5016
Hydrostatic Mud Pressure-Initial 2780 Final 2280
Flo. Pressure-Initial 470 # Final 1080 #
Bottom Hole Pressure-Initial 1690 # Final 1640 #
Surface Pressure — Chokes-Top 1" Bottom 3/4"
Recorder No. 25-71 Date Calibrated 7-19-56

Recovery!

FLOWED GASSY OIL IN 35 MIN
90' OIL + GAS ^{out} MUD + FOAM



KE SEMI-LOGARITHMIC 359-61LG
KEUFFEL & ESSER CO. MADE IN U.S.A.
2 CYCLES X 180 DIVISIONS



3000

PETROLEUM RESEARCH CORPORATION
DST PRESSURE ANALYSIS

File No. 45-8-3

IHMIP AND FHMIP

2800

2700

2600

2500

2400

2300

2200

2100

2000

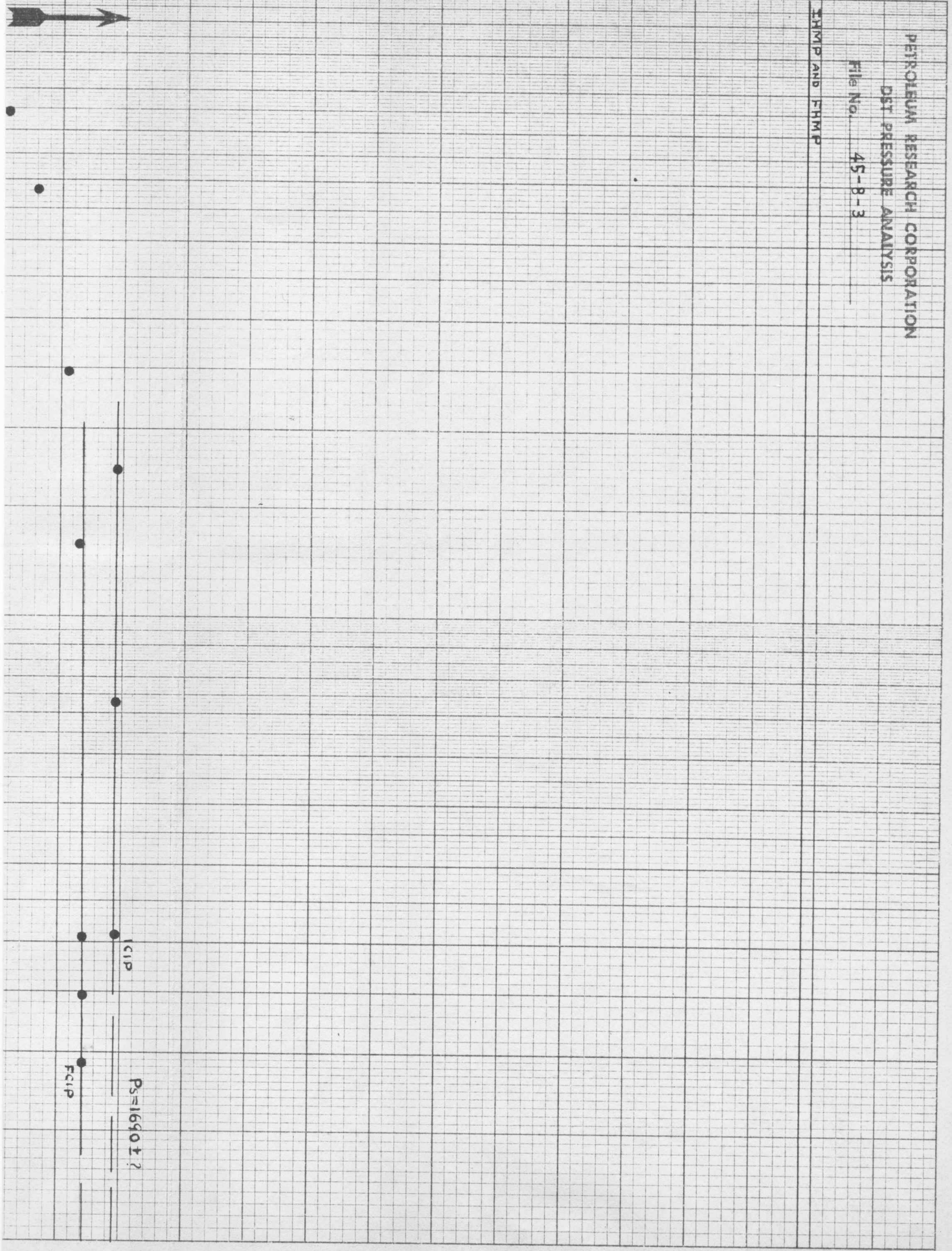
1900

1800

1700

1600

1500





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COMPANY GULF OIL CORPORATION WELL Thorn #1
DATE August 12, 1956 COUNTY Kiowa STATE Kansas
TEST NO. #4 TICKET NO. 6127-K TYPE TEST Open-hole (Conventional)
TEST APPROVED BY P. L. Miller WESTERN REPRESENTATIVE Ed Schonhoff

TEST DATA:

Tested From 5021' To 5036' Depth 5036'
Hydrostatic Mud Pressure—Initial (A) 2770# Final (B) 2770#
Flow Pressure—Initial (B) 0# Final (C) 0#
Bottom Hole Pressure—Initial (F) 1320# Final (D) 1570#
Tool Open 1 Hr. - Min.; Shut-in-Initial - Hr. - Min.; Shut-in-Final - Hr. 30 Min.
Chokes; Surface 1/2" Bottom 3/4" Fluid Cushion: Type None Amount _____
Recovery: 40' Thin mud

SURFACE DATA:

BLOW: Very weak for 5 minutes; flushed tool at 30 minutes, very weak for 3 minutes.
Maximum Surface Pressure _____ Did Well Flow? No

Description of Flow	Time	Max. Pressure	Size Surface Choke

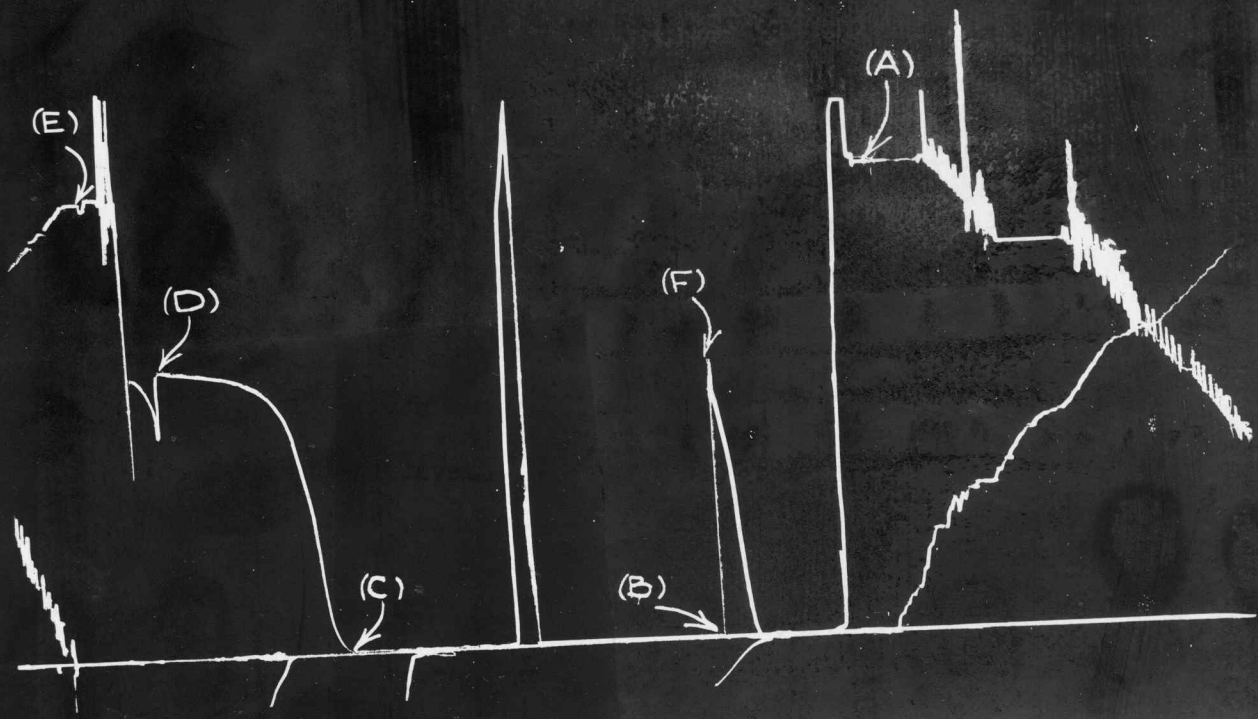
GENERAL OPERATIONAL DATA:

Hole Size: Main Hole 7-7/8" Rat Hole _____ Drill Pipe Size 4 1/2" F. H.
Hole Condition Good Mud Weight 10# Viscosity 43
Type Pressure Recorder Western Recorder No. 25 & 26 Date Calib. 7-19-56
Extra Equipment: Dual Packer No Jars Yes Safety Joint No
Was Test Recovery Reversed Out? No Bottom Hole Temperature 122
Number of Copies Requested _____

REMARKS:

GULF OIL CORP.
THORN # 1

TEST # 4
TKT 6127-K



This is an actual photograph of recorder chart.

PRESSURE DATA

(A) Initial Hydrostatic Mud	2770#
(B) Initial Flow	0#
(C) Final Flow	0#
(D) Final Shut-In	1570#
(E) Final Hydrostatic Mud	2770#
(F) Initial Shut-In	1320#

Point	Pressure
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Company Gulf Oil Corp. Well THORN #1
Test No. 4 Ticket No. 6727 Date 8-12-56
Depth 5038 Tested From 5021 To 5036
Hydrostatic Mud Pressure-Initial 2770 Final 2740 #
Flo Pressure-Initial 0 Final 0
Bottom Hole Pressure-Initial 1320 Final 1570 #
Surface Pressure 0 Chokes-Top 1/2 Bottom 3/4
Recorder No. 25-26 Date Calibrated 7-19-56

Recovery:
40' THIN Mud

3000

2900

2800

2700

2600

2500

2400

2300

2200

2100

2000

1900

1800

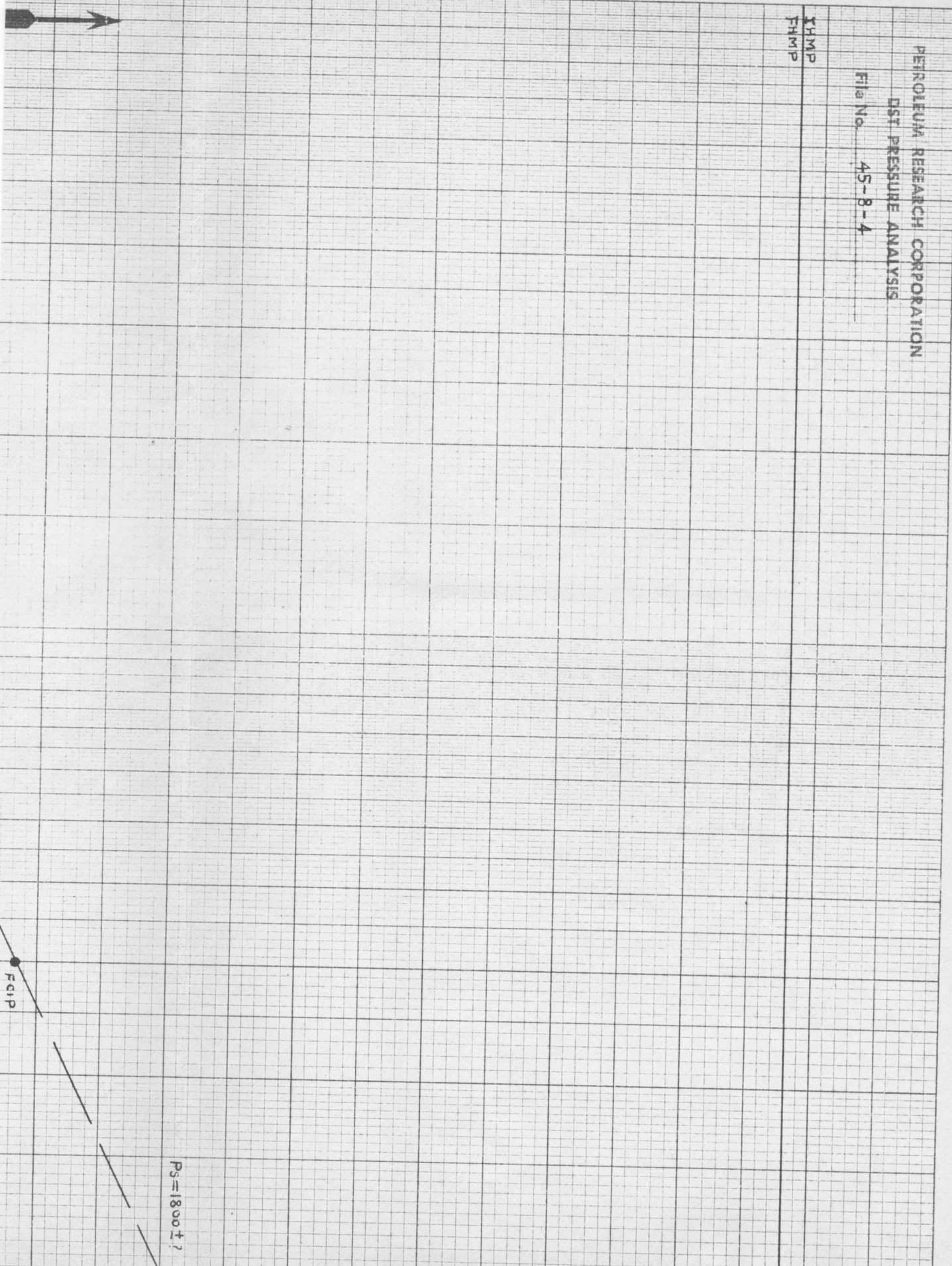
1700

1600

PETROLEUM RESEARCH CORPORATION
DST PRESSURE ANALYSIS

File No. 45-8-4

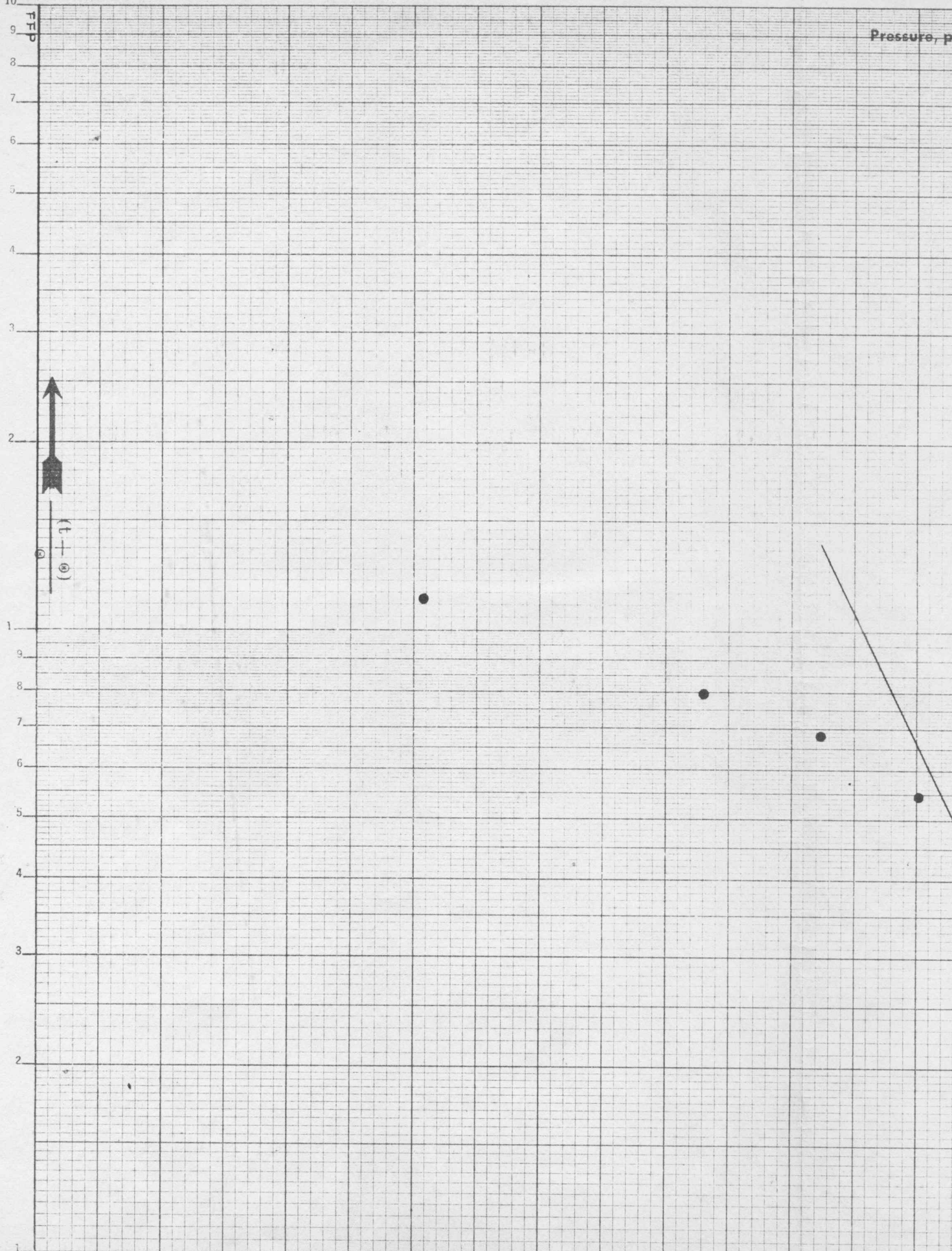
IHP
FHP



Ps = 1800 ± ?

FCIP

000 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400



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