

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

DATE 5-3-56

OPEN HOLE TEST NO. 1 WELL: Hilgers #1
FIELD — COUNTY Rooks STATE Kansas

COMPANY Osage Oil and Gas
ADDRESS 531 Petroleum Building, Wichita, Kansas
TEST APPROVED BY D. F. Moore
JOHNSTON OPERATOR J. M. O'Connor TICKET NO. 46336

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3330'</u>	
1. Test Interval: <u>3310'</u>	To <u>3330'</u>	7. Fluid Cushion: Type <u>None</u>	Amount <u>—</u>
2. Tool Open <u>1</u>	Hrs. <u>30</u> Min. <u>—</u>	8. Air Chamber Amount <u>—</u>	Size <u>—</u>
3. Initial Shut In <u>—</u>	Hrs. <u>—</u> Min. <u>—</u>	9. Did Packer(s) Hold? <u>Yes</u>	—
4. Final Shut In <u>—</u>	Hrs. <u>30</u> Min. <u>—</u>	10. Did Tool Plug? <u>No</u>	Where? <u>—</u>
5. Choke: Top <u>3"</u>	Bottom <u>3"</u>	11. Was Test Reversed Out? <u>No</u>	—
6. Fluid Recovery <u>130'</u> Total, <u>70'</u> heavy oil cut mud <u>60'</u> muddy oil <u>30'</u> gas			

REMARKS:

SURFACE INFORMATION

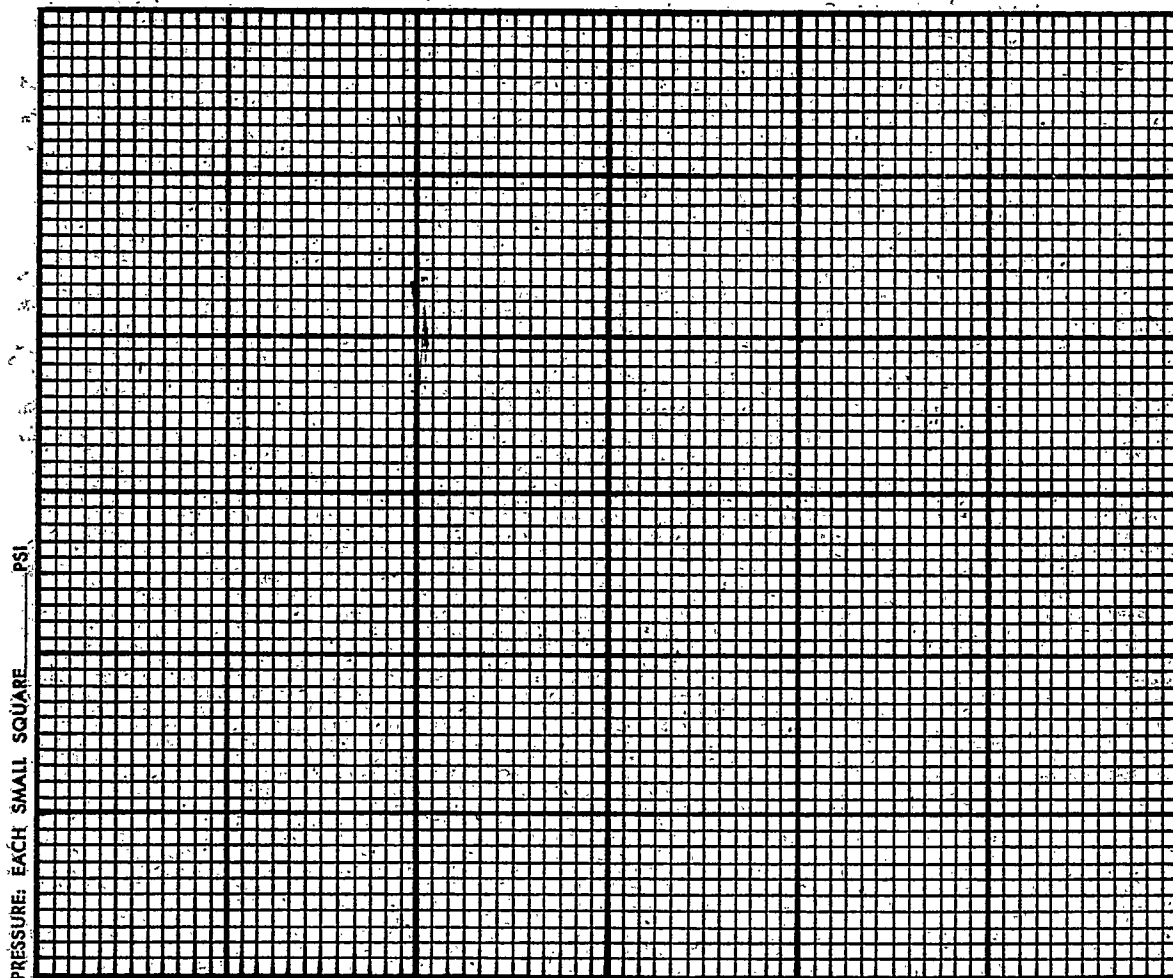
1. Blow: Started weak, built up throughout test.

2. Maximum Surface Pressure		Did Well Flow? <u>No</u>	
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type <u>Mud</u>	Weight <u>10.1</u>	Viscosity <u>38</u>	
HOLE: Main Hole Size <u>7 7/8</u>	Drill Pipe Size <u>4 1/2"</u>		
Rat Hole Size <u>—</u>			
JOHNSTON TOOLS:			
1. Packer(s): Type <u>OH</u>	O.D. <u>6 5/8</u>	Type <u>—</u>	O.D. <u>—</u>
Set At <u>3310'</u>		Set At <u>—</u>	
2. Extra Equipment: <u>None</u>			

Number of Copies Requested: 3



TIME: EACH SMALL SQUARE _____ MINS.

st Ticket No. 46336 Pressure Recorder: No. T-61
 Part Number _____ Cap. 3000#
 _____ Location _____

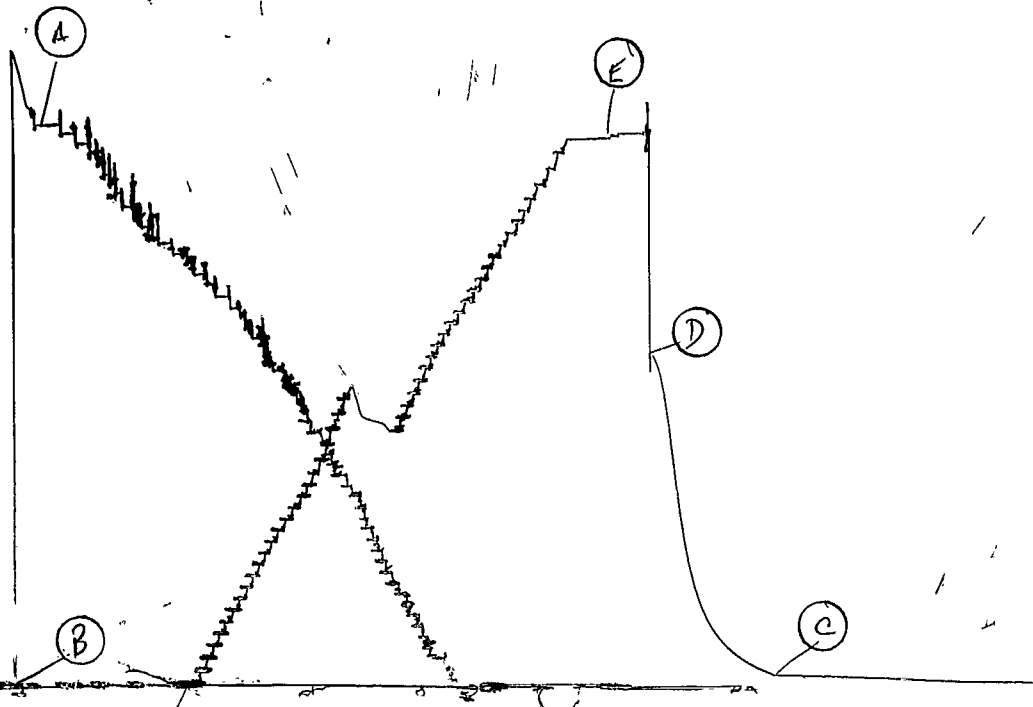
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TT# 46336

T-61

3000

-3-



OPEN HOLE TEST

JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

DATE 5-6-56

OPEN HOLE TEST NO. 2 WELL: Hilgers No. 1
FIELD - COUNTY Rooks STATE Kansas

COMPANY Osage Oil & Gas Company
ADDRESS 531 Petroleum Building Wichita, Kansas
TEST APPROVED BY D. F. Moore
JOHNSTON OPERATOR Julie M. Winters TICKET NO. 22109

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3393'</u>	
1. Test Interval: <u>3362'</u>	To <u>3393'</u>	7. Fluid Cushion: Type <u>None</u>	Amount
2. Tool Open <u>1</u>	Hrs. Min	8. Air Chamber Amount <u>-</u>	Size:
3. Initial Shut In	Hrs. Min	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In	Hrs. <u>30</u> Min	10. Did Tool Plug? <u>No</u>	Where?
5. Choke: Top <u>-</u>	Bottom <u>1 1/2"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>470'</u> Total,			
<u>470'</u> Muddy salt water			

REMARKS:

SURFACE INFORMATION

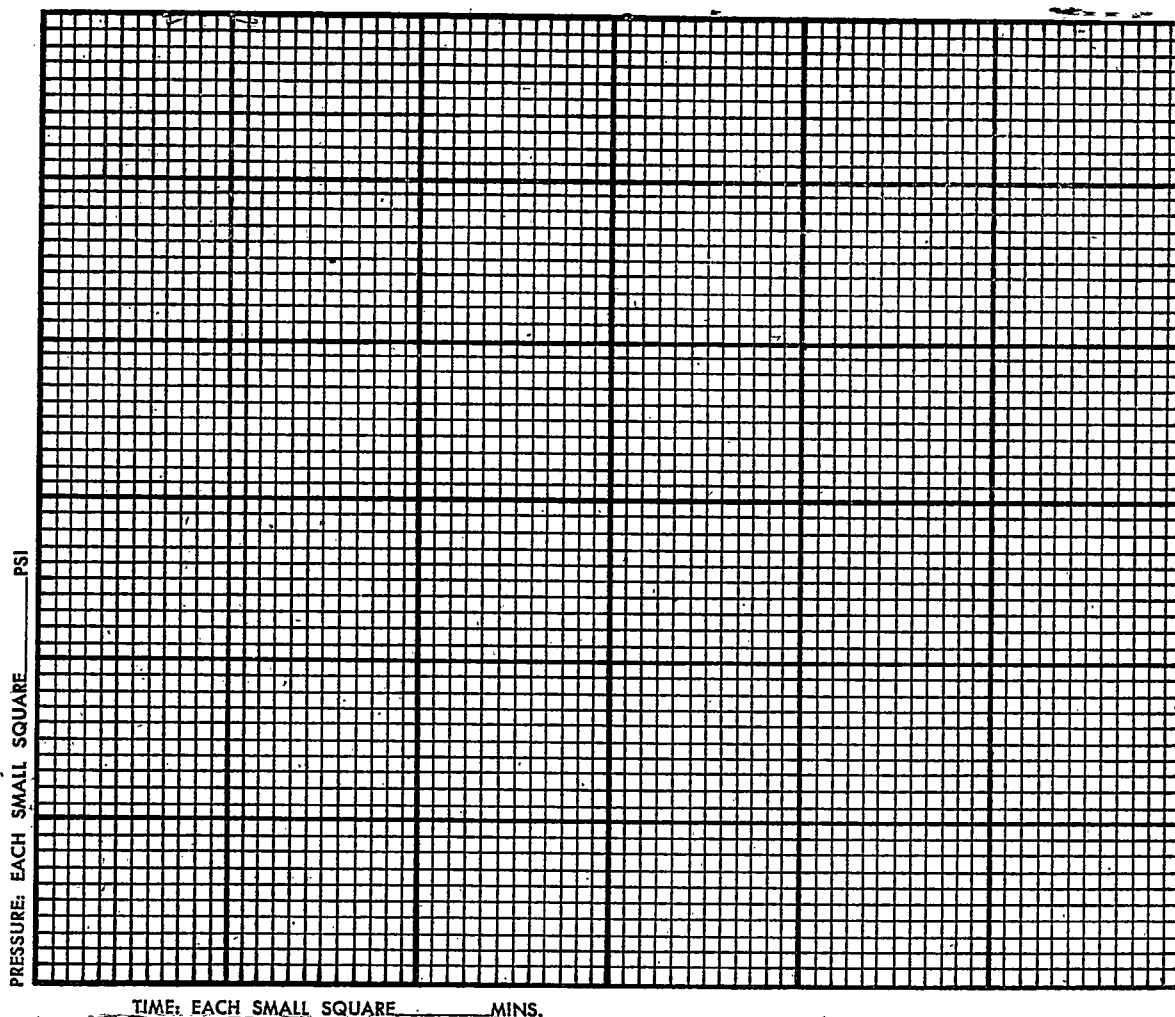
1. Blow: <u>Weak to good blow through out test.</u>			
2. Maximum Surface Pressure <u>0</u>		Did Well Flow? <u>No</u>	
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Mud, Weight 10.1 Viscosity 45
HOLE: Main Hole Size 7 7/8 Drill Pipe Size 4 1/2 F.H.
Rat Hole Size -
JOHNSTON TOOLS:
1. Packer(s): Type B.T. O.D. 6 5/8X2 7/8X21 Type - O.D. -
Set At 3362' Set At -
2. Extra Equipment: None

Number of Copies Requested: 3



TIME: EACH SMALL SQUARE _____ MINS.

Ticket No. 22109
Part Number

Pressure Recorder:

No. T-57
Cap. 3000
Location 3393

PRESSURE DATA

Initial Hydrostatic Mud	1810
Initial Flow	50
Final Flow	250
Final Shut-In	860
Final Hydrostatic Mud	1810
"Initial Shut-In"	

Remarks: Read on 100° Curve.

Point	Pressure
-------	----------

Point	Pressure
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
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95	100
96	100
97	100
98	100
99	100
100	100

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TT# 22109

T-57

3000#

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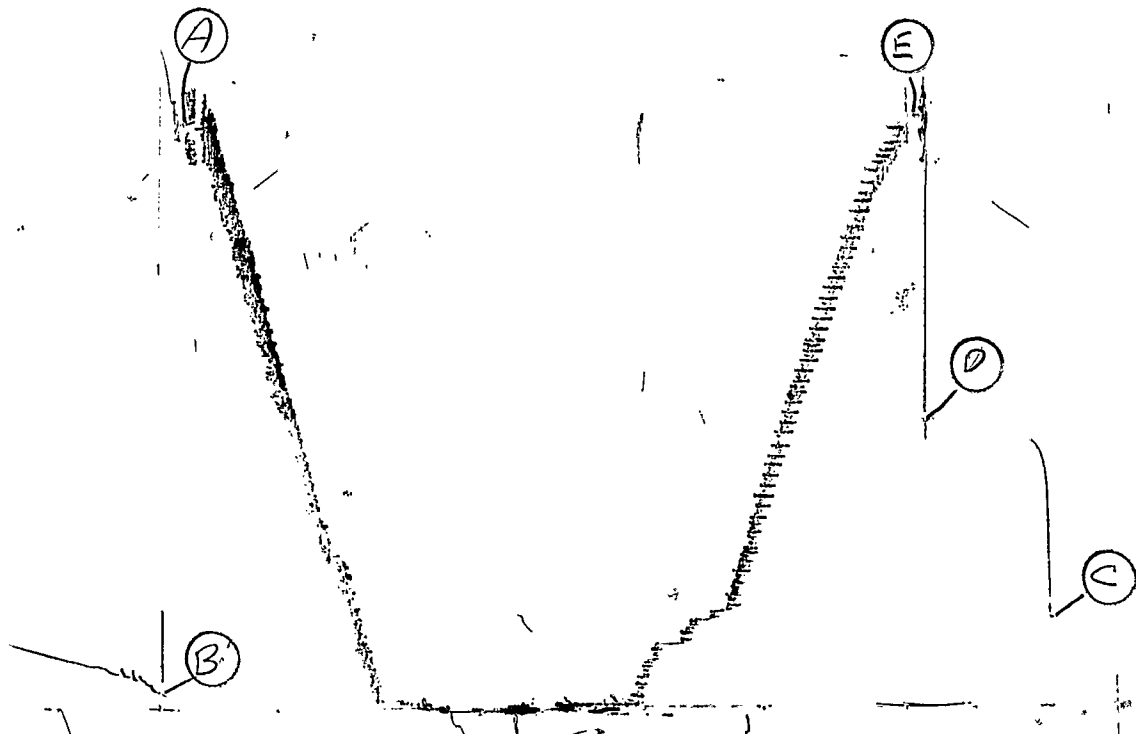
(A)

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(D)

(C)

(B)



OPEN HOLE TEST

JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

DATE 5-7-56

OPEN HOLE TEST NO. 3 WELL: Hilgers #1
FIELD - COUNTY Rooks STATE Kansas

COMPANY Osage Oil & Gas Company
ADDRESS 531 Petroleum Building Wichita, Kansas
TEST APPROVED BY D. F. Moore
JOHNSTON OPERATOR Ule M. Winters TICKET NO. 22110

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3418'</u>
1. Test Interval: <u>3404'</u> To <u>3418'</u>	7. Fluid Cushion: Type <u>None</u> Amount <u>-</u>	
2. Tool Open <u>1</u> Hrs. <u>30</u> Min	8. Air Chamber Amount <u>-</u> Size: <u>-</u>	
3. Initial Shut In <u>-</u> Hrs. <u>-</u> Min	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In <u>Undetermined</u> Hrs. <u>30</u> Min	10. Did Tool Plug? <u>No</u> Where? <u>-</u>	
5. Choke: Top <u>-</u> Bottom <u>1/2"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>100'</u> Total,		
<u>40' Oil & gas cut mud</u>		
<u>60' Oil & gassy cut watery mud</u>		

REMARKS:

SURFACE INFORMATION

1. Blow: <u>Weak, steady blow through out test.</u>			
2. Maximum Surface Pressure <u>0</u>		Did Well Flow? <u>No</u>	
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke

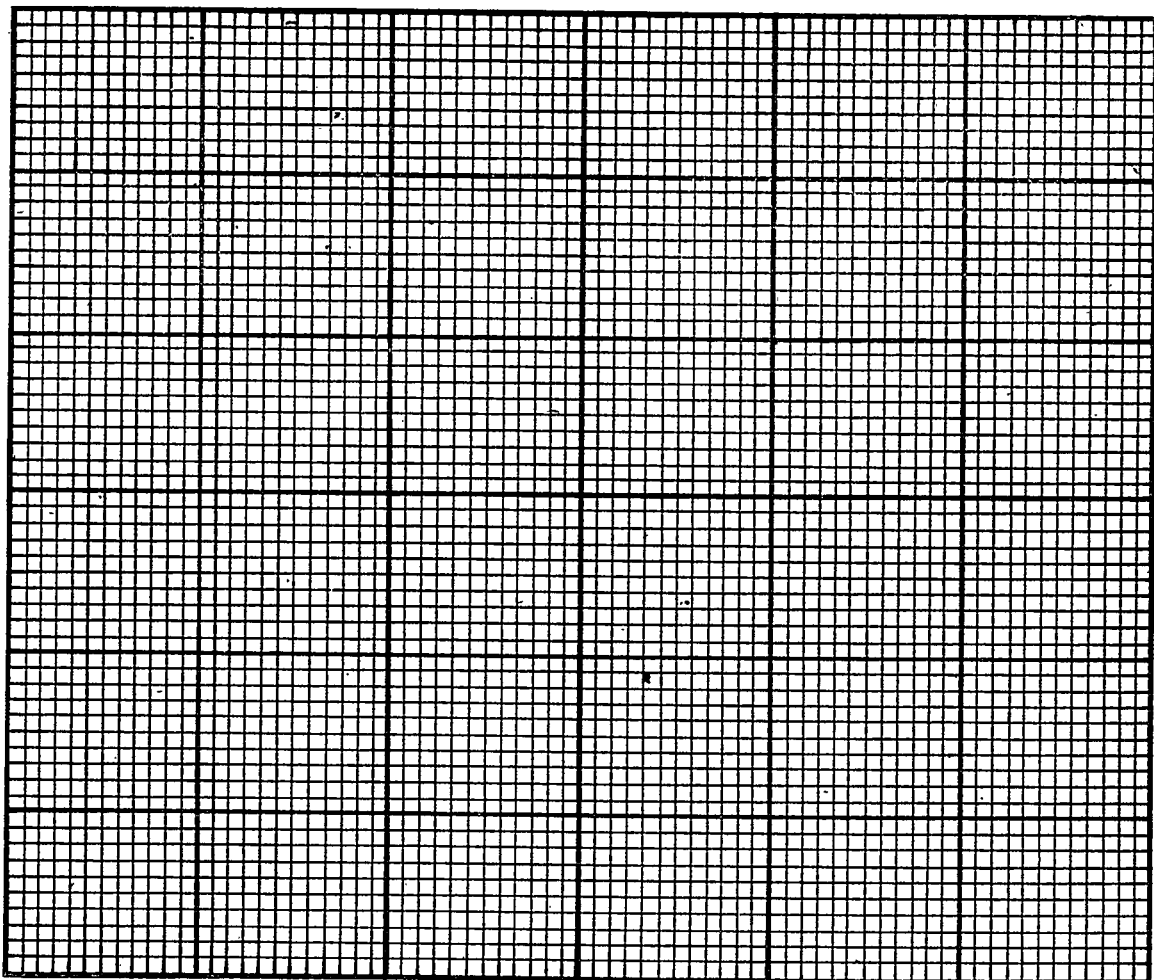
MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Mud, Weight 10 Viscosity 38
HOLE: Main Hole Size 7 7/8 Drill Pipe Size 4 1/2 F.H.
Rat Hole Size -
JOHNSTON TOOLS:
1. Packer(s): Type B.T. O.D. 6 5/8X2 7/8X21 Type - O.D. -
Set At 3404' Set At -
2. Extra Equipment: None

Number of Copies Requested: 3

PRESSURE: EACH SMALL SQUARE _____ PSI



TIME: EACH SMALL SQUARE _____ MINS.

Test Ticket No. 22110
Chart Number _____

Pressure Recorder:

No. I-4
Cap. 4500
Location 3418

PRESSURE DATA

Initial Hydrostatic Mud 1894
Initial Flow 83
Final Flow 83
Final Shut-In 687 Undetermined
Final Hydrostatic Mud 1894
"Initial Shut-In" _____

Point

Pressure

Point

Pressure

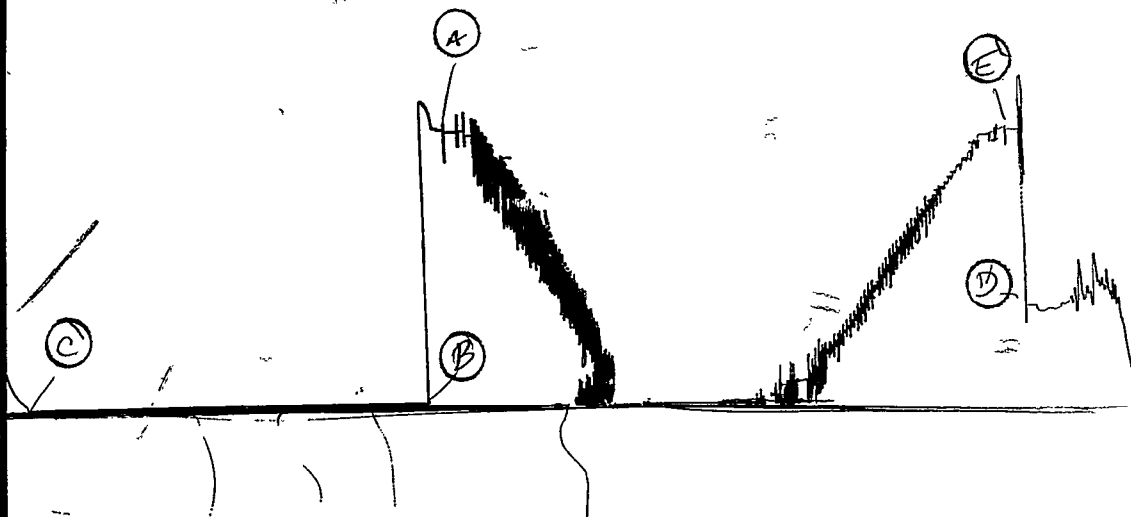
Remarks: _____

TS# 22110

L-4

4500 #

82-2



OPEN HOLE TEST

JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

DATE 5-8-56

OPEN HOLE TEST NO. 4 WELL: Hilgers No. 1
FIELD - COUNTY Rooks STATE Kansas

COMPANY Osage Oil & Gas Company
ADDRESS 531 Petroleum Building Wichita, Kansas
TEST APPROVED BY D. F. Moore
JOHNSTON OPERATOR Jule M. Winters TICKET NO. 22111

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3568'</u>	
1. Test Interval: <u>3561'</u> To <u>3568'</u>	7. Fluid Cushion: Type <u>None</u> Amount <u>-</u>		
2. Tool Open <u>1</u> Hrs. <u>-</u> Min <u>-</u>	8. Air Chamber Amount <u>-</u> Size: <u>-</u>		
3. Initial Shut In <u>-</u> Hrs. <u>-</u> Min <u>-</u>	9. Did Packer(s) Hold? <u>Yes</u>		
4. Final Shut In <u>-</u> Hrs. <u>30</u> Min <u>-</u>	10. Did Tool Plug? <u>No</u> Where? <u>-</u>		
5. Choke: Top <u>-</u> Bottom <u>1/2"</u>	11. Was Test Reversed Out? <u>No</u>		
6. Fluid Recovery <u>720'</u> Total, <u>630'</u> Clean Oil <u>90'</u> Heavy oil & gas cut mud			

REMARKS:

SURFACE INFORMATION

1. Blow: <u>Good blow through out test.</u>			
2. Maximum Surface Pressure <u>0</u>		Did Well Flow? <u>No</u>	
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type <u>Mud</u>	Weight <u>10</u>	Viscosity <u>40</u>	
HOLE: Main Hole Size <u>7 7/8</u>	Drill Pipe Size <u>4 1/2 F.H.</u>		
Rat Hole Size <u>-</u>			
JOHNSTON TOOLS:			
1. Packer(s): Type <u>B.T.</u>	O.D. <u>6 5/8X2 7/8X21</u>	Type <u>-</u>	O.D. <u>-</u>
Set At <u>3561'</u>	Set At <u>-</u>		
2. Extra Equipment: <u>None</u>			

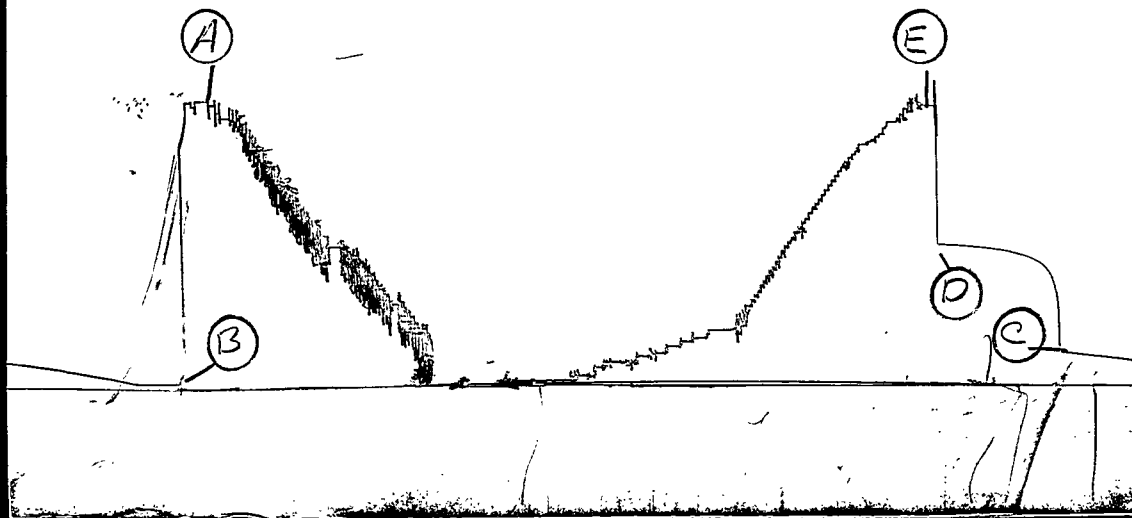
Number of Copies Requested: 3

22111

L-315

3000⁺

3-



OPEN HOLE TEST

JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

19-9-R18W

DATE 6-26-56

OPEN HOLE TEST NO. 1 WELL: Hilgers # 3
 FIELD _____ COUNTY Rooks STATE Kansas
 COMPANY Osage Oil & Gas Company
 ADDRESS 531 Petroleum Building Wichita, Kansas
 TEST APPROVED BY D.F. Moore
 JOHNSTON OPERATOR C.T. Williams TICKET NO. 46368

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3325'</u>
1. Test Interval: <u>3300'</u> To <u>3325'</u>	7. Fluid Cushion: Type <u>-</u> Amount _____	
2. Tool Open _____ Hrs. <u>20</u> Min	8. Air Chamber Amount <u>-</u> Size: _____	
3. Initial Shut In _____ Hrs. _____ Min	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In _____ Hrs. <u>10</u> Min	10. Did Tool Plug? <u>No</u> Where? _____	
5. Choke: Top _____ Bottom <u>1/2"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>8'</u> Total, _____		
<u>8'</u> rotary mud		

REMARKS:

SURFACE INFORMATION

1. Blow: Weak 4 min. Flushed after 11 minutes.

2. Maximum Surface Pressure None Did Well Flow? No

Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type _____, Weight 10.4 Viscosity 36

HOLE: Main Hole Size 7 7/8" Drill Pipe Size 4 1/2" F.H.

Rat Hole Size _____

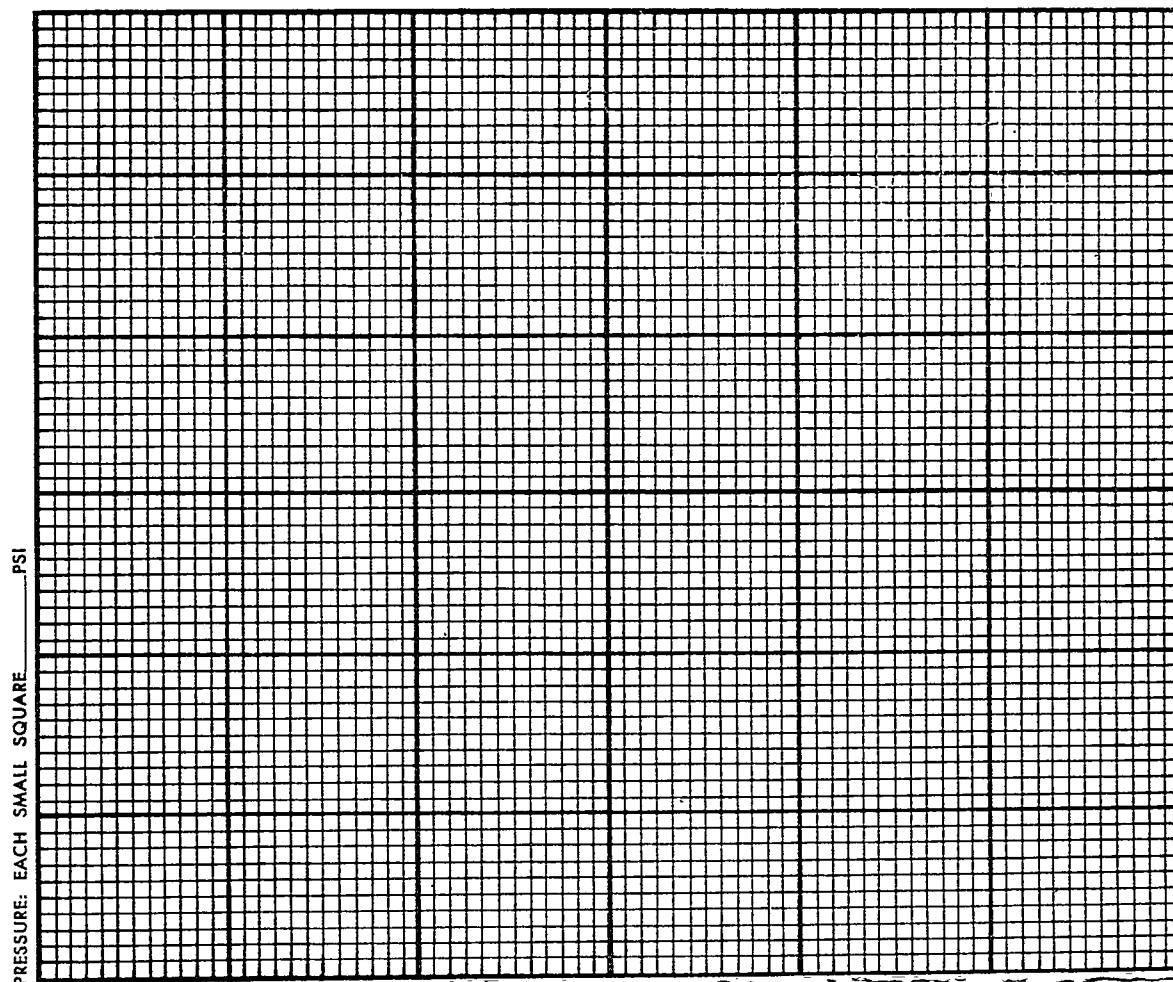
JOHNSTON TOOLS:

1. Packer(s): Type Conv., O.D. 6 3/4" Type _____ O.D. _____

Set At 3300' Set At _____

2. Extra Equipment: _____

Number of Copies Requested: 3



TIME: EACH SMALL SQUARE _____ MINS.

Test Ticket No. 46368
Chart Number _____

Pressure Recorder:

No. I-440
Cap. 4500#
Location _____

Cap. 4500#

Location

PRESSURE DATA	
A	Initial Hydrostatic Mud 1810
B	Initial Flow 87
C	Final Flow 87
D	Final Shut-In 330
E	Final Hydrostatic Mud 1800
F	"Initial Shut-In"

Remarks: _____

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46368

4440

4500

3-

