

**OPEN HOLE TEST**

**JOHNSTON TESTERS, INC.**

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

DATE 5/2/58  
 OPEN HOLE TEST NO. 2 WELL: Rogers #1  
 FIELD - COUNTY Rooks STATE Kansas  
 COMPANY Cities Service Oil Company  
 ADDRESS Box 553, Russell, Kansas  
 TEST APPROVED BY W. C. Newlin  
 JOHNSTON OPERATOR J. M. O'Connor TICKET NO. 37353 N

See 14-15-16

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3076'</u>	
1. Test Interval: <u>3045'</u> To <u>3076'</u>	7. Fluid Cushion: Type <u>None</u> Amount _____	8. Air Chamber Amount <u>None</u> Size: _____	9. Did Packer(s) Hold? <u>Yes</u>
2. Tool Open <u>1</u> Hrs. _____ Min _____	10. Did Tool Plug? <u>Nowhere?</u>	11. Was Test Reversed Out? <u>No</u>	
3. Initial Shut In _____ Hrs. <u>30</u> Min _____	6. Fluid Recovery <u>14'</u> Total, _____		
4. Final Shut In _____ Hrs. <u>45</u> Min _____	<u>14'</u> mud.		
5. Choke: Top <u>7/8"</u> Bottom <u>7/8"</u>	REMARKS:		

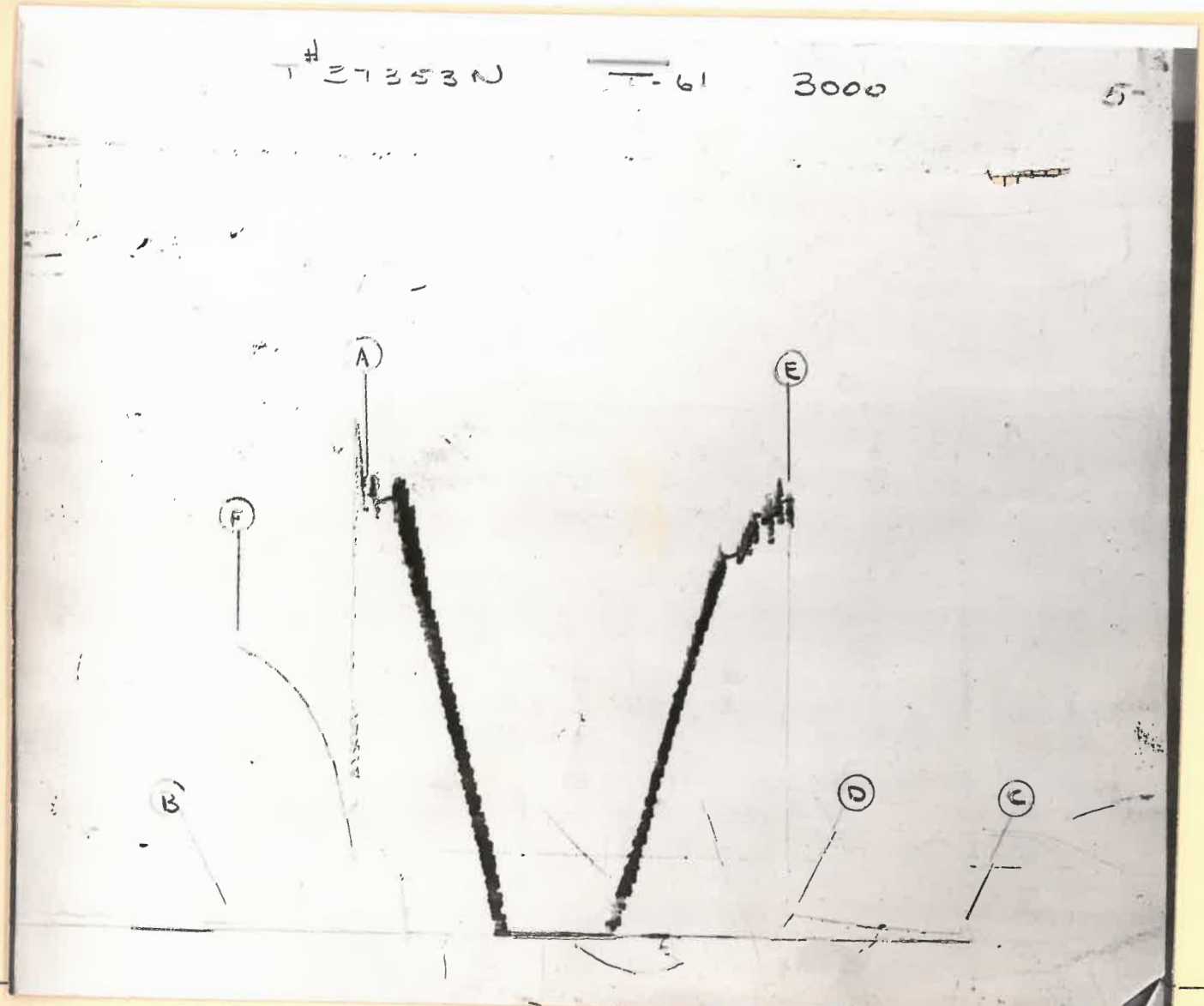
SURFACE INFORMATION

1. Blow: <u>Very weak four (4) minute blow.</u>	Did Well Flow? <u>No</u>
2. Maximum Surface Pressure _____	Description Or Rate of Flow _____
Time _____	Max. Pressure _____
_____	Size Surface Choke _____
_____	_____
_____	_____

MUD, HOLE, & TOOL DATA

**MUD, HOLE & JOHNSTON TOOL DATA**

MUD: Type -, Weight 9.9 Viscosity 43  
 HOLE: Main Hole Size 7-7/8" Drill Pipe Size 4-1/2"  
 Rat Hole Size -  
 JOHNSTON TOOLS:  
 1. Packer(s): Type Bob Tail O.D. 6-5/8" Type \_\_\_\_\_ O.D. \_\_\_\_\_  
 Set At 3045' Set At \_\_\_\_\_  
 2. Extra Equipment: None.



Test Ticket No. 37353 N Pressure Recorder: Cap. \_\_\_\_\_  
 Chart Number \_\_\_\_\_ Location \_\_\_\_\_

PRESSURE DATA	Point Pressure		Point Pressure	
	Point	Pressure	Point	Pressure
A Initial Hydrostatic Mud				
B Initial Flow				
C Final Flow				
D Final Shut-In				
E Final Hydrostatic Mud				
F "Initial Shut-In"				
Remarks:				

# JOHNSTON TESTERS, INC.

## PRESSURE DATA

Date 5/2/58

Test No. 2 Well Rogers #1  
 Field - County Rooks State Kansas  
 Company Cities Service Oil Company Test Ticket No. 37353 N  
 Recorder No. T-61 Capacity 3000# Location 3068'  
 Clock No. 230 Clock travel 0.02367 inches per min. Well Temperature - °F.  
 Read on 100° F. curve.

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1625			
B Initial Flow	21	Tool Open	6:39 A. M.	
C Final Flow	47	Initial Shut-in	30 Mins.	29 Mins.
D Final Shut-in	89	Flow	60 Mins.	61 Mins.
E Final Hydrostatic Mud	1625	Final Shut-in	45 Mins.	45 Mins.
F Initial Shut-in	1042			

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

PRESSURE BREAKDOWN					
INITIAL SHUT-IN		FLOW PERIOD		FINAL SHUT-IN	
Breakdown: <u>9</u> increments of <u>3</u> mins. and a final increment of <u>2</u> mins.		Breakdown: <u>20</u> increments of <u>3</u> mins. and a final increment of <u>1</u> mins.		Breakdown: <u>15</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.	
Point Minutes	Pressure	Point Minutes	Pressure	Point Minutes	Pressure
0-Mins.	275	B-0 Mins.	21	C-0 Mins.	47
3 "	515	3 "	21	3 "	28
6 "	657	6 "	23	6 "	29
9 "	759	9 "	23	9 "	32
12 "	837	12 "	23	12 "	34
15 "	895	15 "	23	15 "	38
18 "	939	18 "	23	18 "	41
21 "	979	21 "	24	21 "	46
24 "	1008	24 "	23	24 "	50
27 "	1029	27 "	25	27 "	56
F	1042	30 "	33	30 "	60
		33 "	38	33 "	65
		36 "	45	36 "	72
		39 "	34	39 "	77
		42 "	39	42 "	83
		45 "	49	D	89
		48 "	41		
		51 "	46		
		54 "	54		
		57 "	40		
		60 "	45		
		C	47		

**OPEN HOLE TEST**

**JOHNSTON TESTERS, INC.**

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

DATE 5/3/58

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

COMPANY Cities Service Oil Company  
 ADDRESS Box 553; Russell, Kansas  
 TEST APPROVED BY V.L. Lynch  
 JOHNSTON OPERATOR J.M. O'Connor TICKET NO. 37354 N

Spec 14-105-16 W

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3106'</u>
1. Test Interval: <u>3090'</u> To <u>3106'</u>	7. Fluid Cushion: Type <u>None</u> Amount _____	
2. Tool Open <u>1</u> Hrs. _____ Min _____	8. Air Chamber Amount <u>None</u> Size: _____	
3. Initial Shut In _____ Hrs. <u>30</u> Min _____	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In _____ Hrs. <u>45</u> Min _____	10. Did Tool Plug? <u>No</u> Where? _____	
5. Choke: Top <u>7/8"</u> Bottom <u>7/8"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>9'</u> Total, _____		
9' drilling mud with trace of oil.		

REMARKS:

SURFACE INFORMATION

1. Blow: Very weak blow for 2 minutes.

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

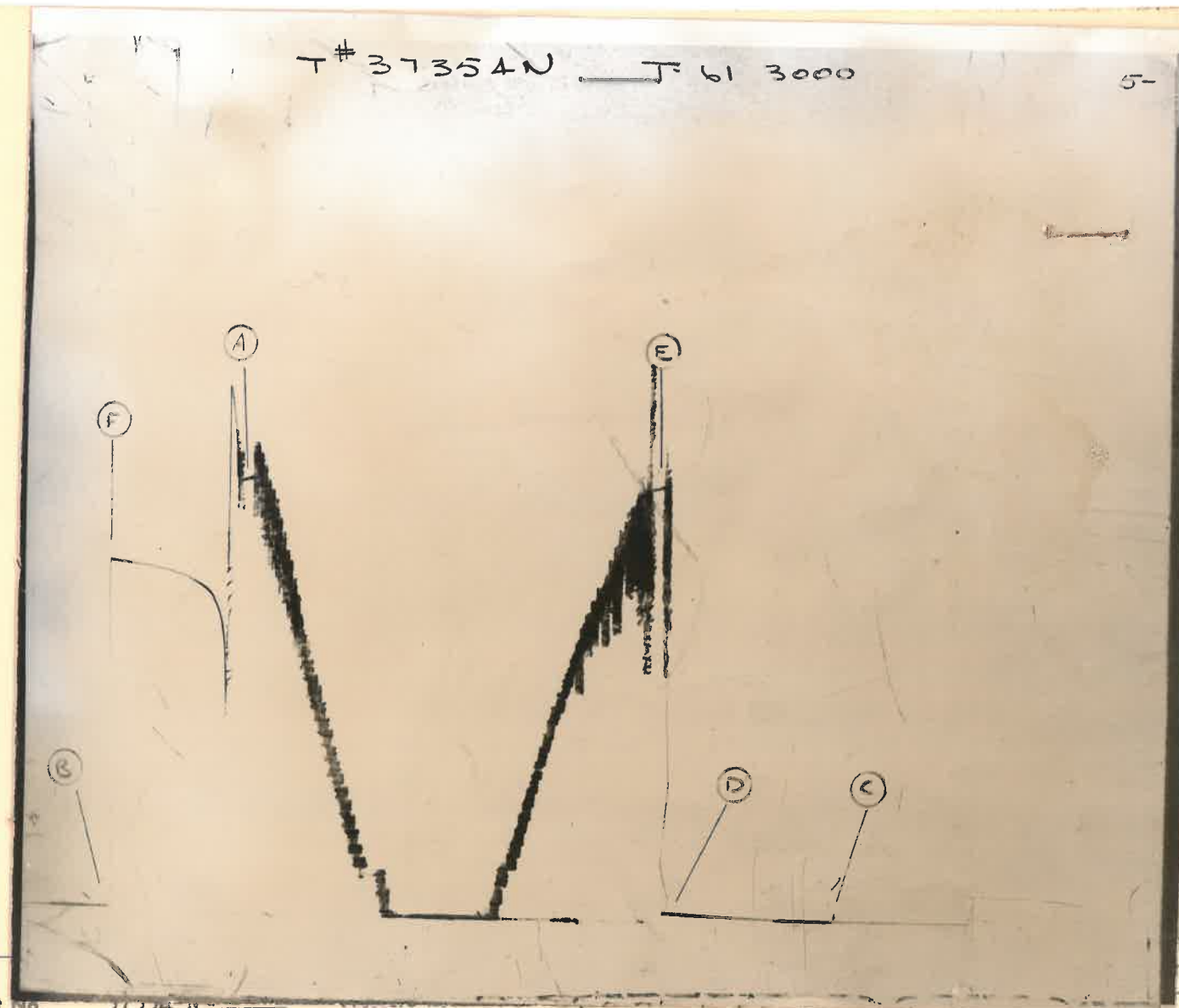
MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Starch, Weight 9.8 Viscosity 41  
 HOLE: Main Hole Size 7-7/8" Drill Pipe Size 4 1/2"  
 Rat Hole Size None

JOHNSTON TOOLS:  
 1. Packer(s): Type Conv. O.D. 6-5/8" Type \_\_\_\_\_ O.D. \_\_\_\_\_  
 Set At 3090' Set At \_\_\_\_\_  
 2. Extra Equipment: None

Number of Copies Requested: 5



Test Ticket No. 37354 N Location \_\_\_\_\_  
 Chart Number \_\_\_\_\_

PRESSURE DATA	Point	Pressure	Point	Pressure
	A Initial Hydrostatic Mud			
B Initial Flow				
C Final Flow				
D Final Shut-In				
E Final Hydrostatic Mud				
F "Initial Shut-In"				
Remarks:				

# JOHNSTON TESTERS, INC.

## PRESSURE DATA

Date 5/3/58

Test No. 3 Well Rogers #1 State Kansas  
 Field - County Rooks Test Ticket No. 37354 N  
 Company Cities Service Oil Company Location 3098'  
 Recorder No. T-61 Capacity 3000# Well Temperature          °F.  
 Clock No. 230 Clock travel 0.02336 inches per min. Read on 100 F. Curve.

Point	Pressure
A Initial Hydrostatic Mud	1618
B Initial Flow	18
C Final Flow	18
D Final Shut-in	35
E Final Hydrostatic Mud	1619
F Initial Shut-in.	1307

	Time Given	Time Computed
Tool Open	- M.	
Initial Shut-in	30 Mins.	- Mins.
Flow	60 Mins.	- Mins.
Final Shut-in	45 Mins.	- Mins.

Remarks:

### PRESSURE BREAKDOWN

INITIAL SHUT-IN	FLOW PERIOD	FINAL SHUT-IN																																																																																																						
Breakdown: <u>10</u> increments of <u>3</u> mins. and a final increment of <u>2</u> mins.	Breakdown: <u>20</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.	Breakdown: <u>15</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.																																																																																																						
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**OPEN HOLE TEST**

**JOHNSTON TESTERS, INC.**

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

DATE 5-4-58  
 OPEN HOLE TEST NO. 4 WELL: Rogers #1  
 FIELD - COUNTY Rooks STATE Kansas

COMPANY Cities Service Oil Company  
 ADDRESS Box 553; Russell, Kansas  
 TEST APPROVED BY V. L. Lynch  
 JOHNSTON OPERATOR J. M. O'Connor TICKET NO. 37355 N

See 14-10-5-166

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3130'</u>
1. Test Interval: <u>3108.40'</u> To <u>3130'</u>	7. Fluid Cushion: Type <u>None</u> Amount _____	
2. Tool Open <u>1</u> Hrs. _____ Min _____	8. Air Chamber Amount <u>None</u> Size: _____	
3. Initial Shut In _____ Hrs. <u>30</u> Min _____	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In _____ Hrs. <u>46</u> Min _____	10. Did Tool Plug? <u>No</u> Where? _____	
5. Choke: Top <u>7/8"</u> Bottom <u>7/8"</u>	11. Was Test Reversed Out? _____ No	
6. Fluid Recovery <u>42'</u> Total, _____ <u>42'</u> watery mud.		

REMARKS:

SURFACE INFORMATION

1. Blow: Steady weak blow for 27 minutes, weak intermittent blow for remainder of test.

2. Maximum Surface Pressure \_\_\_\_\_ 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 Starch, Weight 9.8 Viscosity 41

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

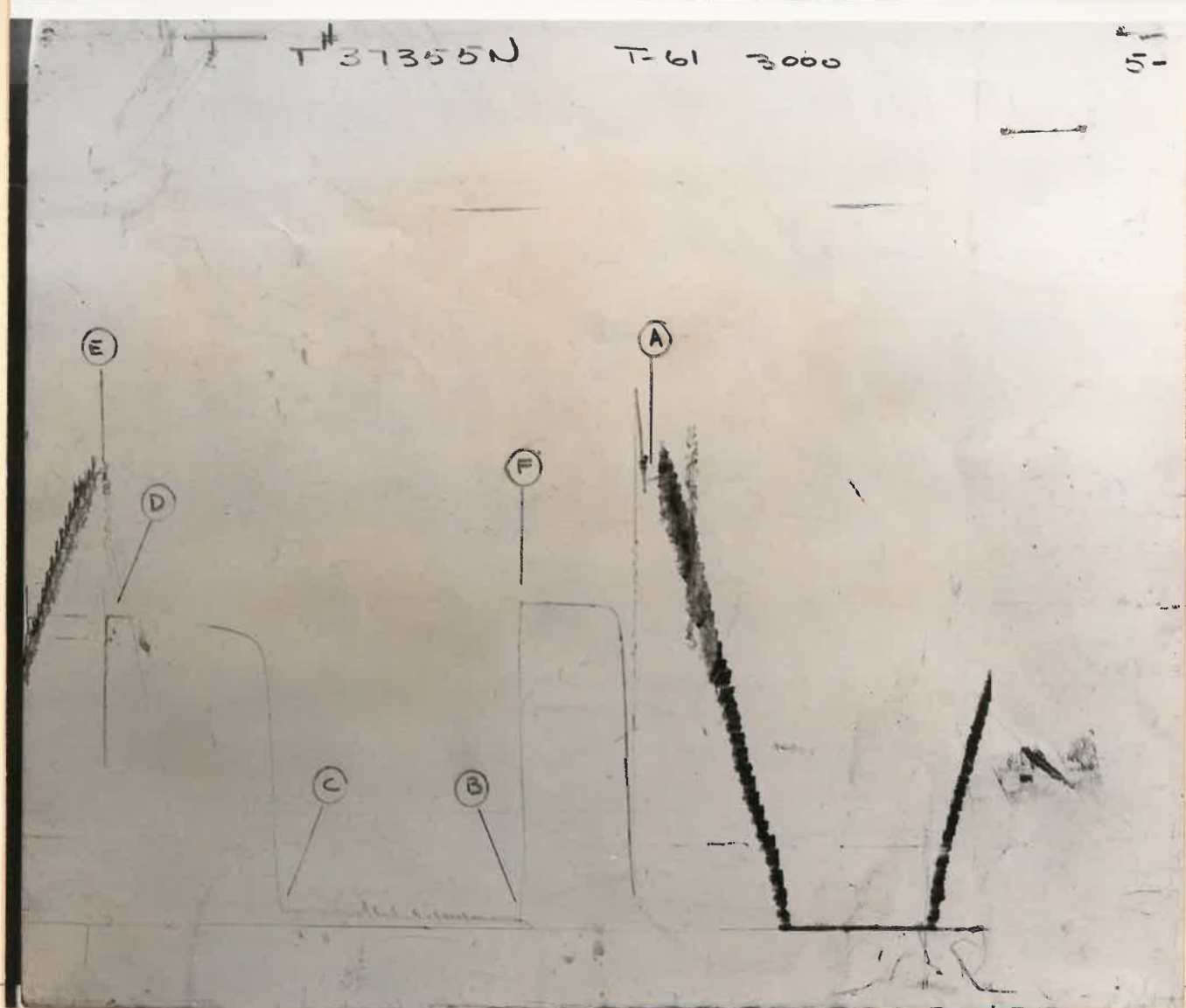
Rat Hole Size None

JOHNSTON TOOLS:

1. Packer(s): Type Conv. O.D. 6 5/8" Type \_\_\_\_\_ O.D. \_\_\_\_\_  
 Set At 3108.40' Set At \_\_\_\_\_

2. Extra Equipment: None.

Number of Copies Requested: 5



Test Ticket No. 37355 N Pressure Recorder: \_\_\_\_\_ Cap. \_\_\_\_\_  
 Chart Number \_\_\_\_\_ Location \_\_\_\_\_

PRESSURE DATA	Point Pressure		Point Pressure	
	Point	Pressure	Point	Pressure
A Initial Hydrostatic Mud				
B Initial Flow				
C Final Flow				
D Final Shut-In				
E Final Hydrostatic Mud				
F "Initial Shut-In"				
Remarks:				

# JOHNSTON TESTERS, INC.

## PRESSURE DATA

Date 5-4-58

Test No. 4 Well Rogers #1  
 Field - County Rooks State Kansas  
 Company Cities Service Oil Company Test Ticket No. 37355 N  
 Recorder No. T-61 Capacity 3000# Location 3122'  
 Clock No. 230 Clock travel 0.02365 inches per min. Well Temperature - °F.  
 Read on 100°F. Curve.

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1638		
B Initial Flow	22	Tool Open 4:00 A.M.	
C Final Flow	40	Initial Shut-in 46 Mins.	Mins.
D Final Shut-in	1118	Flow 60 Mins.	Mins.
E Final Hydrostatic Mud	1645	Final Shut-in 30 Mins.	Mins.
F Initial Shut-in	1179		

Remarks:

PRESSURE BREAKDOWN					
INITIAL SHUT-IN		FLOW PERIOD		FINAL SHUT-IN	
Breakdown: <u>10</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.		Breakdown: <u>20</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.		Breakdown: <u>15</u> increments of <u>3</u> mins. and a final increment of <u>1</u> mins.	
Point	Pressure	Point	Pressure	Point	Pressure
Minutes		Minutes		Minutes	
0 Mins.	109	B-0 Mins.	22	C-0 Mins.	40
3 "	816	3 "	24	3 "	262
6 "	1151	6 "	25	6 "	950
9 "	1169	9 "	25	9 "	1037
12 "	1173	12 "	33	12 "	1057
15 "	1174	15 "	29	15 "	1071
18 "	1176	18 "	40	18 "	1080
21 "	1177	21 "	32	21 "	1087
24 "	1179	24 "	30	24 "	1092
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		C	40		

**OPEN HOLE TEST**

**JOHNSTON TESTERS, INC.**

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

DATE 5/5/58

OPEN HOLE TEST NO. 5 WELL: Rogers # 1  
 FIELD \_\_\_\_\_ COUNTY Rooks STATE Kansas

COMPANY Cities Service Oil Company  
 ADDRESS Box 553, Russell, Kansas  
 TEST APPROVED BY W. C. Newlin  
 JOHNSTON OPERATOR J. M. O'Connor TICKET NO. 37356 N

Sec. 14-105-160

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>			TOTAL DEPTH <u>3271'</u>		
1. Test Interval:	<u>3144.35'</u> To	<u>3271'</u>	7. Fluid Cushion: Type	<u>None</u>	Amount
2. Tool Open	<u>1</u>	Hrs. - Min	8. Air Chamber Amount	<u>None</u>	Size:
3. Initial Shut In	<u>-</u>	Hrs. <u>31</u> Min	9. Did Packer(s) Hold?	<u>Yes</u>	
4. Final Shut In	<u>-</u>	Hrs. <u>45</u> Min	10. Did Tool Plug?	<u>No</u>	Where?
5. Choke: Top	<u>7/8"</u>	Bottom <u>7/8"</u>	11. Was Test Reversed Out?	<u>No</u>	
6. Fluid Recovery <u>12'</u> Total,					
<u>12'</u> rotary mud.					

REMARKS:

1. Blow: Very weak five minute blow.

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

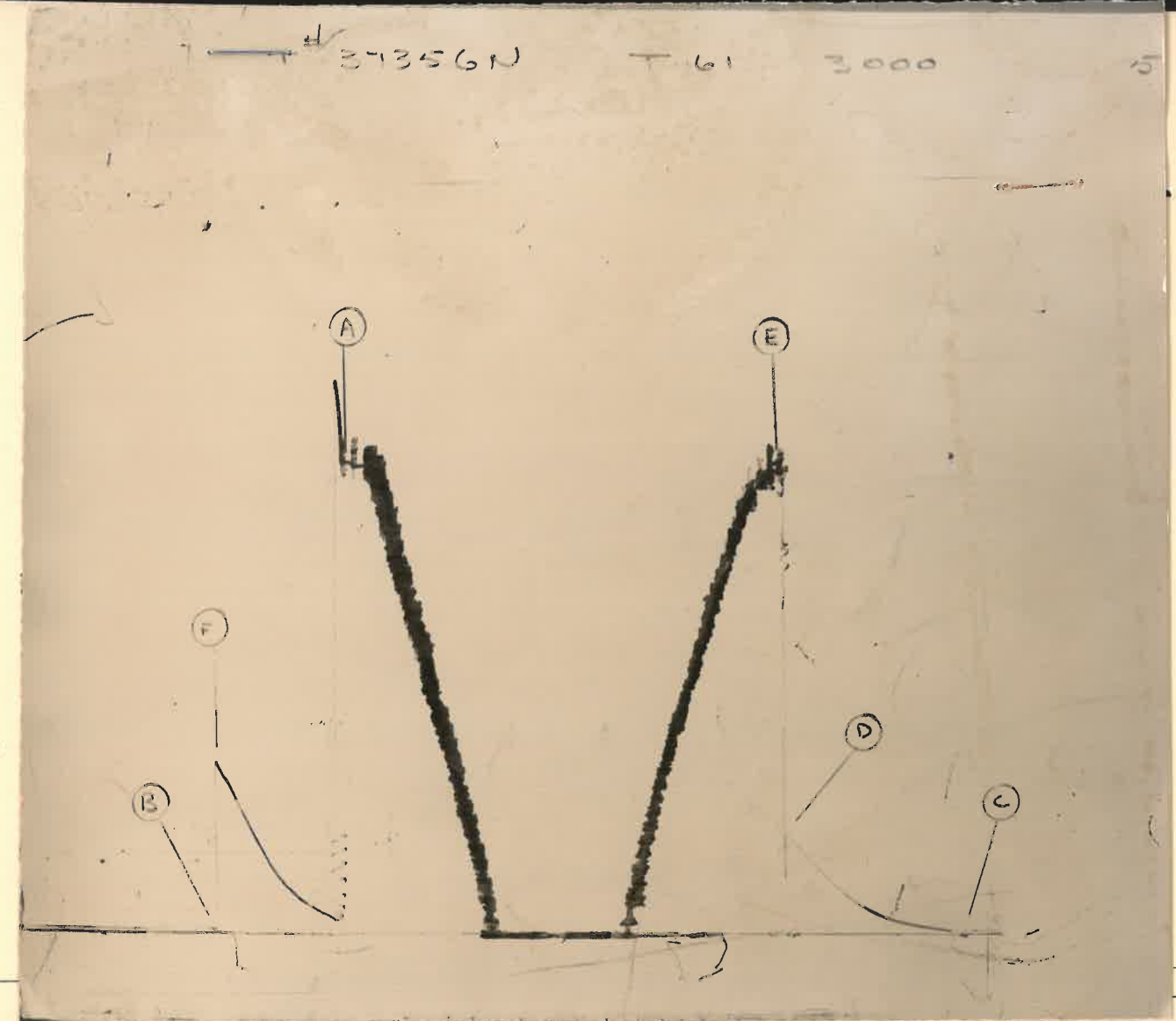
MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Starch, Weight 9.4 Viscosity 43  
 HOLE: Main Hole Size 7-7/8" Drill Pipe Size 4 1/2"  
 Rat Hole Size -

JOHNSTON TOOLS:  
 1. Packer(s): Type Conv. O.D. 6-5/8" Type \_\_\_\_\_ O.D. \_\_\_\_\_  
 Set At 3144.35 Set At \_\_\_\_\_  
 2. Extra Equipment:  
None.

Number of Copies Requested: 5



Test Ticket No. \_\_\_\_\_ Pressure recorder: Cap. \_\_\_\_\_  
 Chart Number \_\_\_\_\_ Location \_\_\_\_\_

PRESSURE DATA	Point Pressure		Point Pressure	
	Point	Pressure	Point	Pressure
A Initial Hydrostatic Mud				
B Initial Flow				
C Final Flow				
D Final Shut-In				
E Final Hydrostatic Mud				
F "Initial Shut-In"				
Remarks:				

# JOHNSTON TESTERS, INC.

## PRESSURE DATA

Date 5/5/58

Test No. 37356 N Well Rogers # 1  
 Field \_\_\_\_\_ County Rooks State Kansas  
 Company Cities Service Oil Company Test Ticket No. 37356 N  
 Recorder No. T-61 Capacity 3000# Location 3263'  
 Block No. 230 Clock travel 0.02334 inches per min. Well Temperature \_\_\_\_\_ °F.  
 Read on 100 F. curve.

Point	Pressure
A Initial Hydrostatic Mud	1693
B Initial Flow	16
C Final Flow	16
D Final Shut-in	357
E Final Hydrostatic Mud	1698
F Initial Shut-in	605

	Time Given	Time Computed
Tool Open	6:40 P.M.	
Initial Shut-in	31 Mins.	31 Mins.
Flow	60 Mins.	62 Mins.
Final Shut-in	45 Mins.	43 Mins.

Remarks:

### PRESSURE BREAKDOWN

INITIAL SHUT-IN	FLOW PERIOD	FINAL SHUT-IN																																																																																																										
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**OPEN HOLE TEST**

**JOHNSTON TESTERS, INC.**

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

DATE 5/7/58

OPEN HOLE TEST NO. 6 WELL: Rogers #1  
 FIELD - COUNTY Rooks STATE Kansas

COMPANY Cities Service Oil Company  
 ADDRESS Box 553, Russell, Kansas  
 TEST APPROVED BY W. C. Newlin  
 JOHNSTON OPERATOR J. M. O'Connor TICKET NO. 37357 N

Dec. 14-105-166

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3437'</u>	
1. Test Interval: <u>3406.30'</u> To <u>3437'</u>	7. Fluid Cushion: Type <u>None</u> Amount <u>-</u>	8. Air Chamber Amount <u>5'</u>	Size: <u>4-5/8"</u>
2. Tool Open <u>1</u> Hrs. <u>-</u> Min <u>-</u>	9. Did Packer(s) Hold? <u>Yes</u>	10. Did Tool Plug? <u>No/Where?</u>	
3. Initial Shut In <u>Undetermined</u> Hrs. <u>30</u> Min <u>-</u>	11. Was Test Reversed Out? <u>No</u>		
4. Final Shut In <u>-</u> Hrs. <u>46</u> Min <u>-</u>			
5. Choke: Top <u>7/8"</u> Bottom <u>7/8"</u>			
6. Fluid Recovery <u>22'</u> Total, <u>22'</u> rotary mud.			

REMARKS:

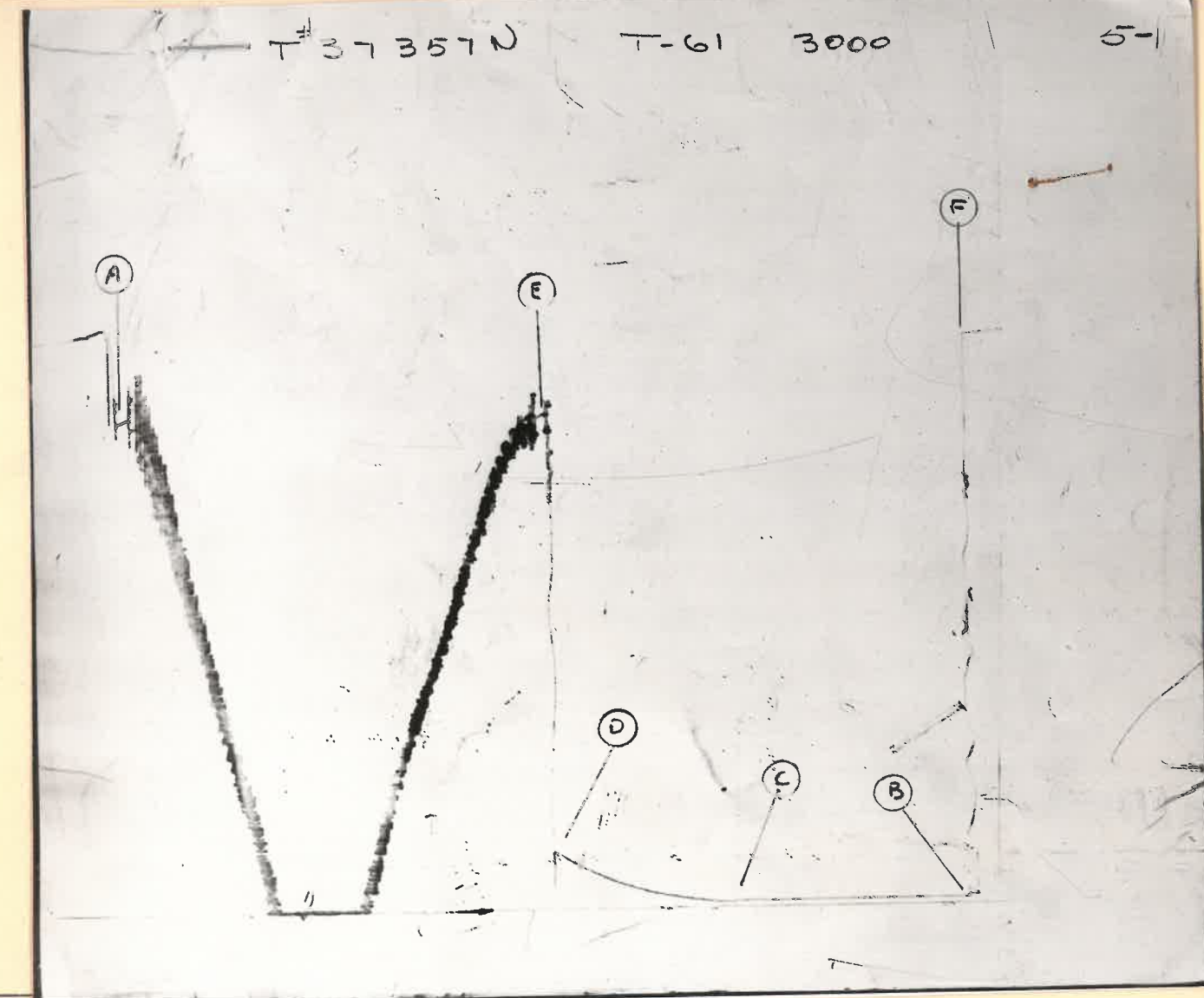
SURFACE INFORMATION

1. Blow: <u>Weak 11 minute blow.</u>	Did Well Flow? <u>No</u>
2. Maximum Surface Pressure <u>-</u>	Size Surface Choke <u>-</u>
Description Or Rate of Flow	Time
	Max. Pressure

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type <u>Starch</u>	Weight <u>9.8</u>	Viscosity <u>42</u>	
HOLE: Main Hole Size <u>7-7/8"</u>	Drill Pipe Size <u>4-5/8"</u>		
Rat Hole Size <u>-</u>			
JOHNSTON TOOLS:			
1. Packer(s): Type <u>Conv.</u>	O.D. <u>6-5/8"</u>	Type <u>-</u>	O.D. <u>-</u>
Set At <u>3406.30'</u>	Set At <u>-</u>		
2. Extra Equipment: <u>None.</u>			

Number of Copies Requested: 5



Test Ticket No. <u>37357 N</u>	Pressure Recorder: <u>No.</u>	Cap. <u>-</u>	Location <u>-</u>
Chart Number <u>-</u>			
PRESSURE DATA		Point	Pressure
A	Initial Hydrostatic Mud		
B	Initial Flow		
C	Final Flow		
D	Final Shut-In		
E	Final Hydrostatic Mud		
F	"Initial Shut-In"		
Remarks: <u>-</u>			

# JOHNSTON TESTERS, INC.

## PRESSURE DATA

Date 5/7/58.

Test No. 6 Well Rogers #1  
 Field - County Rooks State Kansas  
 Company Cities Service Oil Company Test Ticket No. 37357 N  
 Recorder No. T-61 Capacity 3000# Location 3429'  
 Clock No. 230 Clock travel 0.02349 inches per min. Well Temperature - °F.

Read on 100 F. curve.

Point	Pressure		Time Given	Time Computed	
A Initial Hydrostatic Mud	1810				
B Initial Flow	20	Tool Open	9:09 A. M.		
C Final Flow	15		Initial Shut-in	30 Mins.	30 Mins.
D Final Shut-in	207		Flow	60 Mins.	60 Mins.
E Final Hydrostatic Mud	1806		Final Shut-in	46 Mins.	46 Mins.
F Initial Shut-in	Undetermined 2079				

Remarks: Initial shut-in not broken down in increments of time due to being undetermined.

### PRESSURE BREAKDOWN

FLOW PERIOD	FINAL SHUT-IN	
Breakdown: <u>20</u> increments of <u>3</u> mins. and a final increment of <u>-</u> mins.	Breakdown: <u>15</u> increments of <u>3</u> mins. and a final increment of <u>1</u> mins.	Breakdown: <u>      </u> increments of <u>      </u> mins. and a final increment of <u>      </u> mins.
Point Pressure Minutes	Point Pressure Minutes	Point Pressure Minutes
B-0 Mins. 20	C-0 Mins. 15	
3 " 20	3 " 18	
6 " 20	6 " 22	
9 " 20	9 " 27	
12 " 20	12 " 33	
15 " 20	15 " 40	
18 " 20	18 " 49	
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