

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

OPEN HOLE TEST NO. 1 WELL: Koehn #7 DATE 8-25-56
FIELD Nichols COUNTY Kiowan STATE Kan.

COMPANY Gulf Oil Corp.
ADDRESS Box 2233 Wichita Kansas
TEST APPROVED BY P.L. Muller
JOHNSTON OPERATOR H.M. Raymer TICKET NO. 4726 N

GENERAL TEST DATA

TYPE TEST		Conv.	TOTAL DEPTH <u>4548'</u>	
1. Test Interval:	<u>4522'</u>	To <u>4548'</u>	7. Fluid Cushion: Type	<u>-</u> Amount
2. Tool Open	<u>1</u>	Hrs. Min	8. Air Chamber Amount	<u>30'</u> Size: <u>4 1/2" F.H.</u>
3. Initial Shut In		Hrs. <u>25</u> 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>1/2"</u>	Bottom <u>1/2"</u>	11. Was Test Reversed Out?	<u>No</u>
6. Fluid Recovery <u>465'</u> Total,				
<u>465'</u> Thin watery mud.				

REMARKS: 25 Mins. initial shut in.

SURFACE INFORMATION

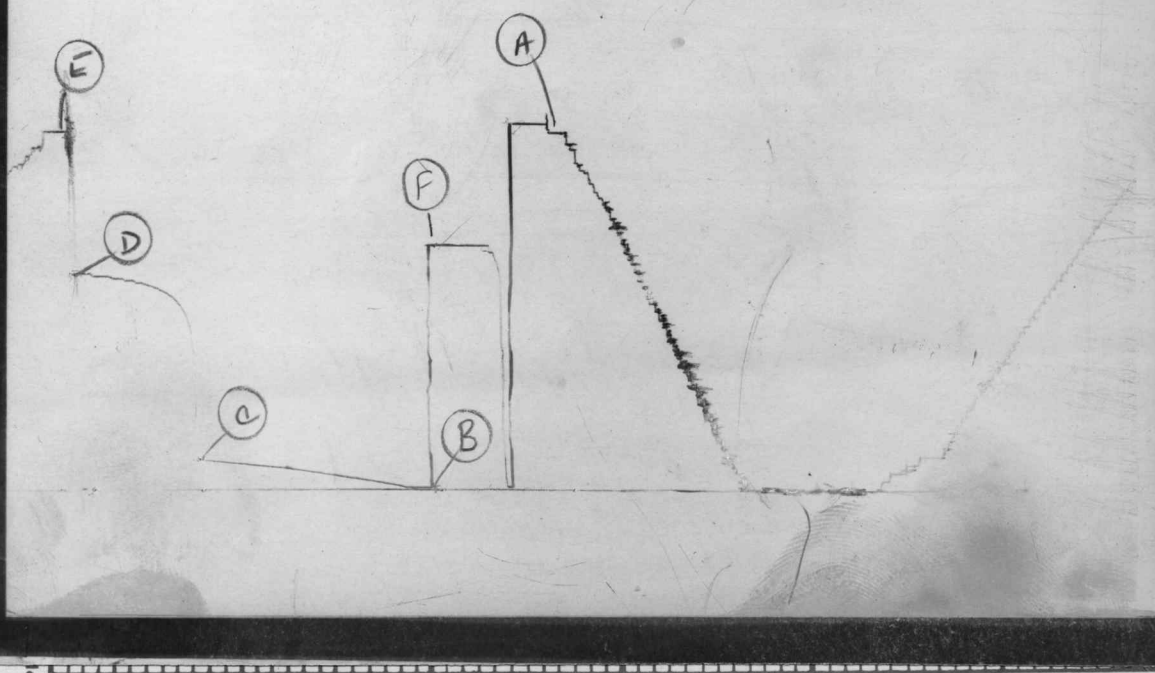
1. Blow:	<u>Fair blow through out test.</u>		
2. Maximum Surface Pressure	<u>-</u>	Did Well Flow?	<u>No</u>
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke
			<u>1/2"</u>

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type	<u>Starch</u>	Weight	<u>9.9</u> Viscosity <u>44</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 5/8"</u>	Type <u>-</u> O.D. <u>-</u>
Set At	<u>4522'</u>	Set At	
2. Extra Equipment:			
<u>Jars.</u>			

Number of Copies Requested: 4

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TIME: EACH SMALL SQUARE _____ MINS.

Test Ticket No. 4726 N
Chart Number

Pressure Recorder:

No. 1-205
Cap. 4500#
Location 4548'

PRESSURE DATA		Point	Pressure	Point	Pressure
A	Initial Hydrostatic Mud	2449			
B	Initial Flow	68			
C	Final Flow	240			
D	Final Shut-In	1493			
E	Final Hydrostatic Mud	2449			
F	"Initial Shut-In"	1684			
Remarks:					

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

DATE 8/26/56
 OPEN HOLE TEST NO. #2 WELL: Koehn #7
 FIELD Nickels Pool COUNTY Kiowa STATE Kansas
 COMPANY Gulf Oil Corporation
 ADDRESS Box 2233, Wichita, Kansas
 TEST APPROVED BY P. L. Miller
 JOHNSTON OPERATOR C. B. Pettay TICKET NO. 4703 N

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>4945'</u>	
1. Test Interval: <u>4930'</u>	To <u>4945'</u>	7. Fluid Cushion: Type <u>None</u>	Amount
2. Tool Open <u>1</u>	Hrs. <u> </u> Min	8. Air Chamber Amount <u>5'</u>	Size: <u>4 1/2" FH</u>
3. Initial Shut In <u> </u>	Hrs. <u>20</u> Min	9. Did Packer(s) Hold? <u>Yes</u>	
4. Final Shut In <u>Undet.</u>	Hrs. <u>30</u> Min	10. Did Tool Plug? <u>No</u>	Where?
5. Choke: Top <u>1/2"</u>	Bottom <u>1/2"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>283'</u> Total,			
<u>2250'</u> gas in pipe			
<u>10'</u> mud			
<u>125'</u> mud and oil specks			
<u>120'</u> oil and gas cut mud			
<u>28'</u> free oil			

REMARKS:

SURFACE INFORMATION

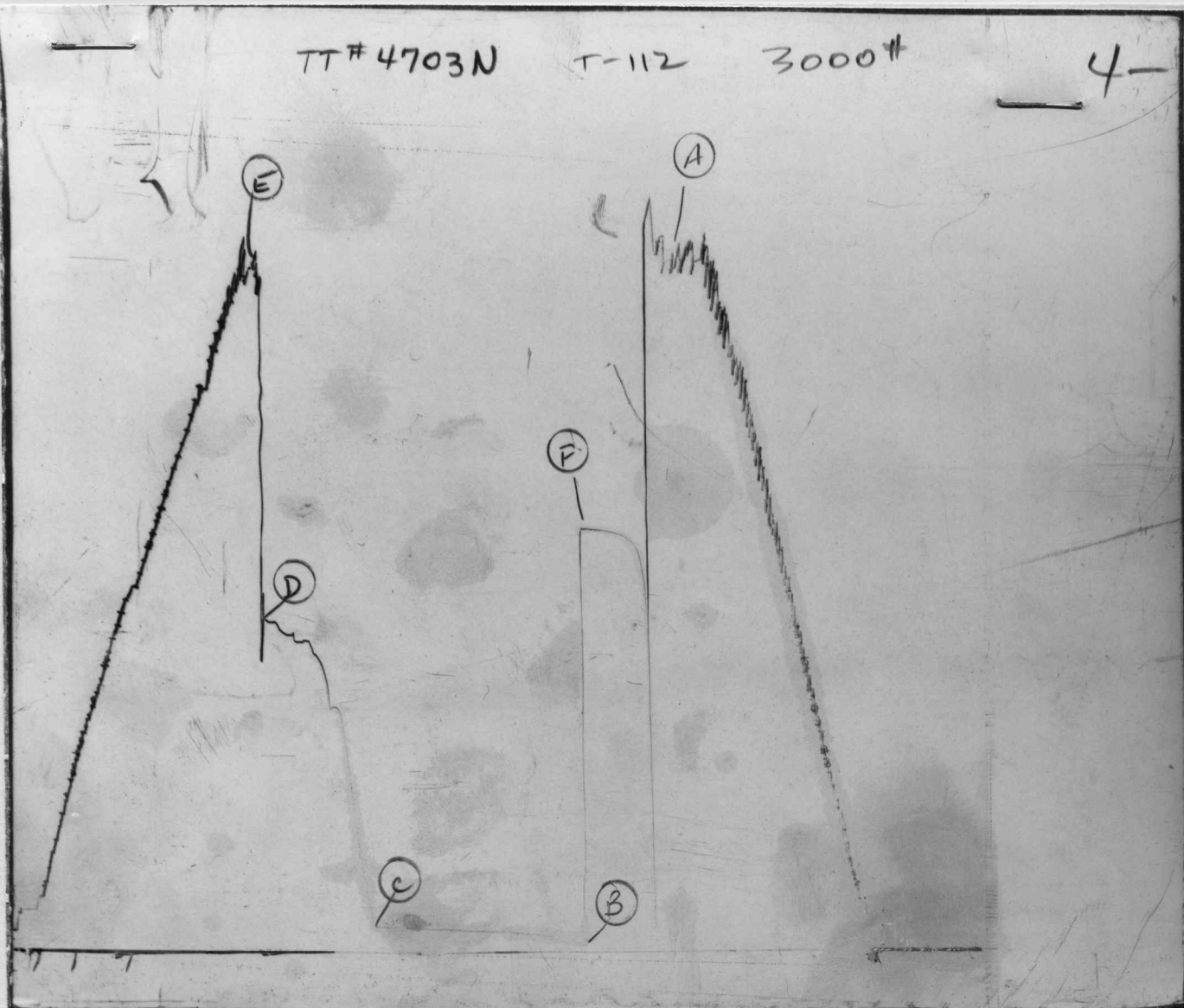
1. Blow: <u>Good throughout test.</u>			
2. Maximum Surface Pressure <u>--</u>	Did Well Flow? <u>No</u>		
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke
<u>--</u>			<u>1/2"</u>

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type <u>Starch</u>	Weight <u>9.9</u>	Viscosity <u>45</u>	
HOLE: Main Hole Size <u>7 7/8</u>	Drill Pipe Size <u>4 1/2" FH</u>		
Rat Hole Size <u>--</u>			
JOHNSTON TOOLS:			
1. Packer(s): Type <u>BT</u>	O.D. <u>6 5/8</u>	Type <u> </u>	O.D. <u> </u>
Set At <u>4930'</u>		Set At <u> </u>	
2. Extra Equipment: <u>3 1/2" FH Bowen Jars #77</u>			

Number of Copies Requested: 4

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TIME: EARLY SMALL SQUARE MINE

Test Ticket No. 4703 N
Chart Number

Pressure Recorder:

No. T-112
Cap. 3000#
Location 4940'

PRESSURE DATA	
A	Initial Hydrostatic Mud 2674
B	Initial Flow 62
C	Final Flow 123
D	Final Shut-In 1314 Undetermined
E	Final Hydrostatic Mud 2669
F	"Initial Shut-In" 1642

Remarks: Temperature corrected to 118 degrees F

[illegible]

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

OPEN HOLE TEST NO. 3 WELL: Koch # 7 DATE 8-27-56
FIELD Nickles-Pool COUNTY Kiowa STATE Kan.

COMPANY Gulf Oil Corp.
ADDRESS Box 2233 Wichita, Kans.
TEST APPROVED BY P.L. Miller
JOHNSTON OPERATOR C.B. Pettay TICKET NO. 4704 N

GENERAL TEST DATA

TYPE TEST		Conv.	TOTAL DEPTH
1. Test Interval:	<u>4945'</u>	To <u>4960'</u>	<u>4960'</u>
2. Tool Open	<u>1</u>	Hrs. <u>0</u> Min	7. Fluid Cushion: Type <u>-</u> Amount <u>-</u>
3. Initial Shut In		Hrs. <u>20</u> Min	8. Air Chamber Amount <u>5'</u> Size: <u>4 1/2"</u> F.H.
4. Final Shut In		Hrs. <u>30</u> Min	9. Did Packer(s) Hold? <u>YES</u>
5. Choke: Top <u>1/2"</u>		Bottom <u>1/2"</u>	10. Did Tool Plug? <u>Where?</u>
			11. Was Test Reversed Out? <u>NO</u>
6. Fluid Recovery <u>400'</u> Total,			
<u>40'</u> Salt water.			
<u>35'</u> Gas cut mud.			
<u>90'</u> Oil & gas cut mud.			
<u>90'</u> Oil & free oil mud cut.			
<u>90'</u> Gassy oil.			
<u>55'</u> Gas cut oil & slightly mud & water cut.			

REMARKS: Gas to surface in 52 mins.

SURFACE INFORMATION

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

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type	<u>Starch</u>	Weight	<u>9.7</u>
HOLE: Main Hole Size	<u>7 7/8"</u>	Viscosity	<u>46</u>
Rat Hole Size	<u>-</u>	Drill Pipe Size	<u>4 1/2"</u> F.H.
JOHNSTON TOOLS:			
1. Packer(s): Type	<u>B.T.</u>	O.D.	<u>6 5/8"</u>
Set At	<u>4945'</u>	Type	<u>O.D.</u>
2. Extra Equipment:	<u>Jars.</u>		

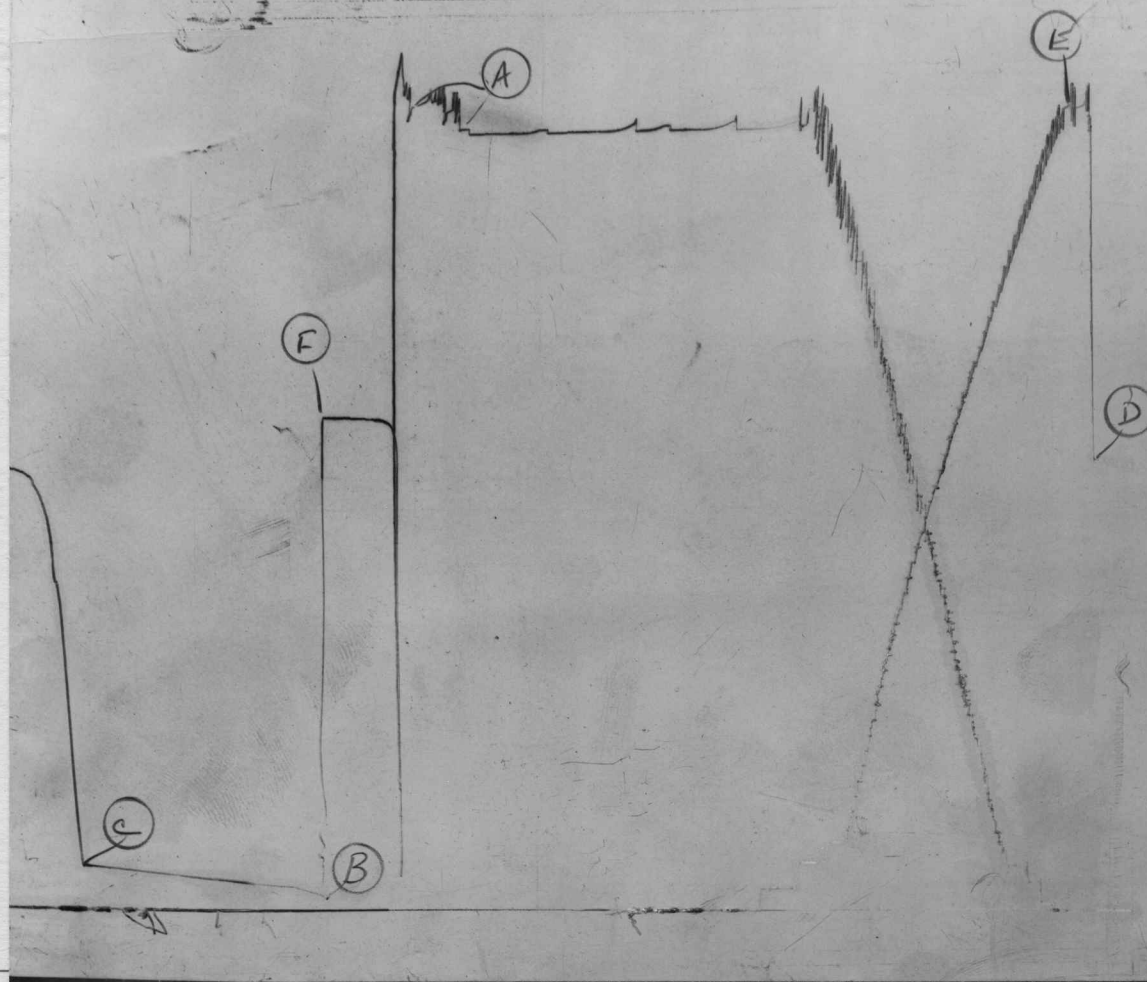
Number of Copies Requested: 4

TT #4704 N

T-112

3000 #

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Test Ticket No. 4704 N
Chart Number

Pressure Recorder:

No. T-112
Cap. 3000#
Location 4955'

PRESSURE DATA

A	Initial Hydrostatic Mud	2690
B	Initial Flow	69
C	Final Flow	171
D	Final Shut-In	1516
E	Final Hydrostatic Mud	2680
F	"Initial Shut-In"	1659

Remarks: Read on 100°F. curve.

Point

Pressure

Point

Pressure

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

DATE 8-27-56
 OPEN HOLE TEST NO. 4 WELL: Koehn #7
 FIELD W.C. COUNTY Kiowa STATE Kans.
 COMPANY Gulf Oil Corp.
 ADDRESS Box 2233 Wichita, Kansas
 TEST APPROVED BY P.L. Miller
 JOHNSTON OPERATOR Wayne W. Elder TICKET NO. 4679 N

GENERAL TEST DATA

TYPE TEST		Conv.	TOTAL DEPTH
1. Test Interval:	<u>4960'</u>	To <u>4990'</u>	<u>4990'</u>
2. Tool Open	<u>1</u>	Hrs. Min	7. Fluid Cushion: Type <u>-</u> Amount <u>-</u>
3. Initial Shut In		Hrs. <u>20</u> Min	8. Air Chamber Amount <u>30'</u> Size: <u>4 1/2</u> F.H.
4. Final Shut In		Hrs. <u>30</u> Min	9. Did Packer(s) Hold? <u>Yes</u>
5. Choke: Top <u>1/2"</u>	Bottom <u>1/2"</u>		10. Did Tool Plug? <u>No</u> Where?
6. Fluid Recovery <u>160'</u> Total,			11. Was Test Reversed Out? <u>No</u>
70' Gassy mud. 30' Gassy water mud , oil specked. 60' Water.			

REMARKS: 20 mins. initial shut in.
Am chamber too large?
14 W.H.

SURFACE INFORMATION

1. Blow: Fair, increasing to strong . For 1 hour.
 2. Maximum Surface Pressure - Did Well Flow? No
 Description Or Rate of Flow Time Max. Pressure Size Surface Choke
- - - 1/2"

MUD, HOLE, & TOOL DATA

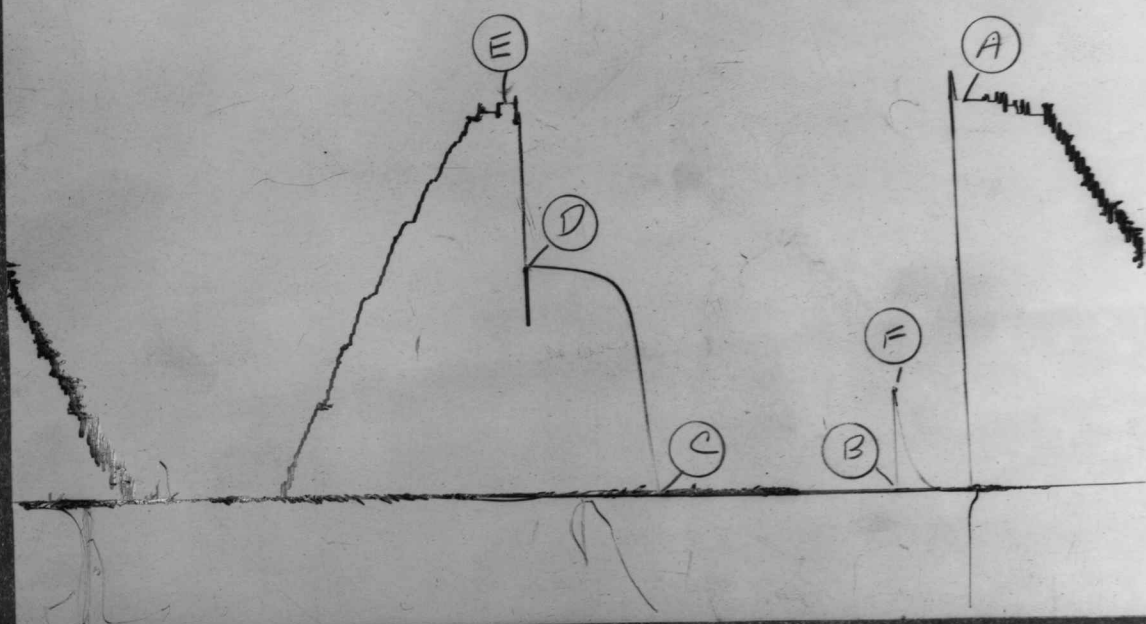
MUD, HOLE & JOHNSTON TOOL DATA
 MUD: Type Starch , Weight 9.9 Viscosity 48
 HOLE: Main Hole Size 7 7/8" Drill Pipe Size 4 1/2 F.H.
 Rat Hole Size -
 JOHNSTON TOOLS:
 1. Packer(s): Type B.T. WALL O.D. 6 5/8" Type - O.D. -
 Set At 4960' Set At -
 2. Extra Equipment: None.

Number of Copies Requested: 4

B L-474

4500#

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Test Ticket No. 4679 N
Chart Number

Pressure Recorder:

No. 1474
Cap. 4500#
Location 4990'

PRESSURE DATA

PRESSURE DATA	
A	Initial Hydrostatic Mud 2760
B	Initial Flow 75
C	Final Flow 75
D	Final Shut-In 1665
E	Final Hydrostatic Mud 2790
F	"Initial Shut-In" 750

Remarks:

[illegible]