

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

DATE 8-5-57

OPEN HOLE TEST NO. 1 WELL: Bowen #1
 FIELD Wild Cat COUNTY Osborne STATE Kansas

COMPANY Cities Service Oil Company
 ADDRESS Box 553; Russell, Kansas
 TEST APPROVED BY V.L. Lynch
 JOHNSTON OPERATOR Al Denning TICKET NO. 24539 N

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3080'</u>
1. Test Interval: <u>3053'</u> To <u>3080'</u>	7. Fluid Cushion: Type <u>None</u> Amount _____	8. Air Chamber Amount <u>5'</u> Size: <u>4 1/2" F.H.</u>
2. Tool Open <u>1</u> Hrs. _____ Min _____	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 _____	11. Was Test Reversed Out? <u>No</u>	
4. Final Shut In _____ Hrs. <u>30</u> Min _____		
5. Choke: Top <u>1/2"</u> Bottom <u>-</u>		
6. Fluid Recovery <u>45'</u> Total, _____		
<u>45'</u> watery drilling mud.		

REMARKS:

Tool slid 2' when tool opened.

+ 1 copy, 5-2-61:

Phillips Petroleum Company
 3765 Wadsworth Blvd.

Wheat Ridge, Colorado Attn: Mr. W. S. Frederick

SURFACE INFORMATION

1. Blow: Weak blow for 12 minutes, slight intermittent rest of hour.

2. Maximum Surface Pressure <u>0#</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

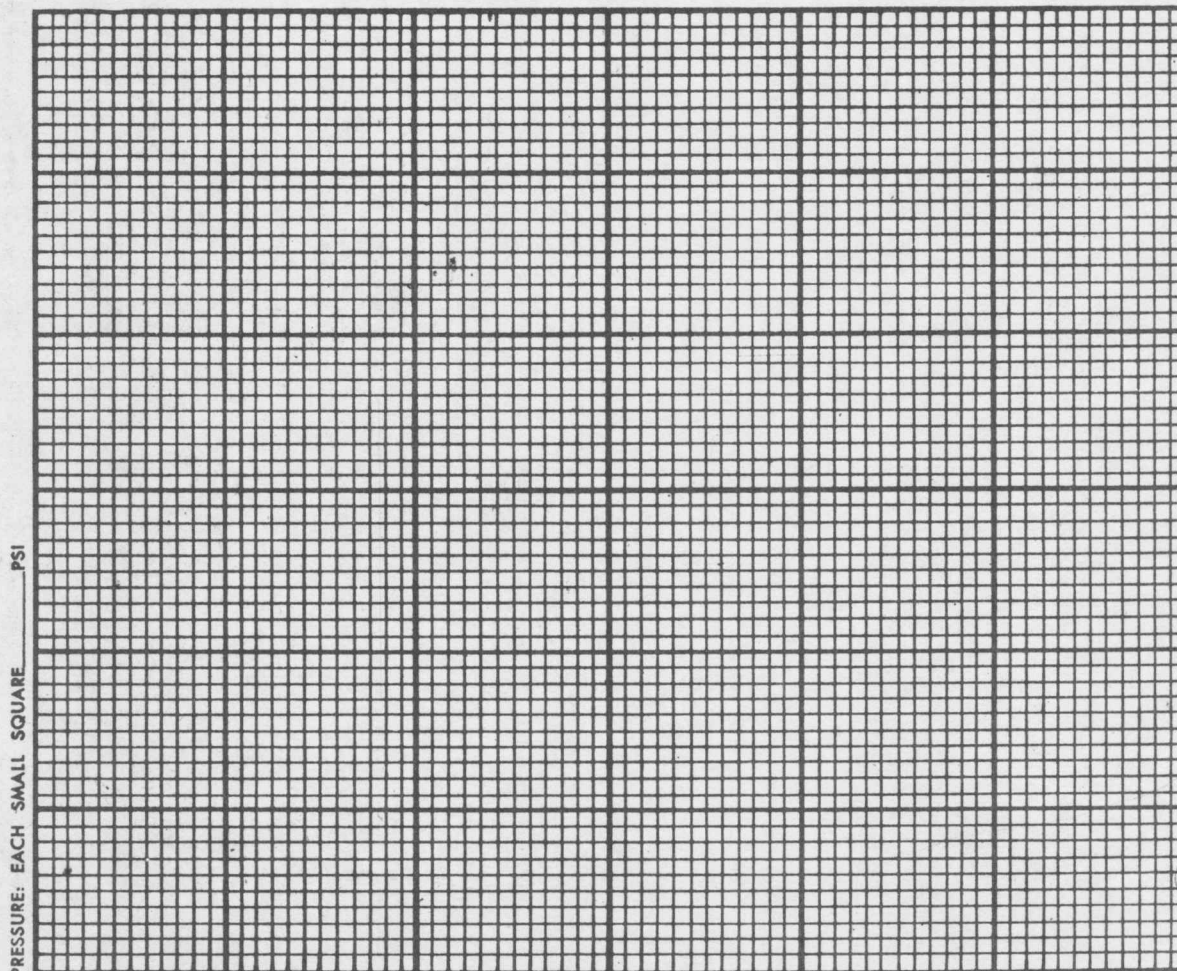
MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Starch, Weight 9.6 Viscosity 37
 HOLE: Main Hole Size 7 7/8" Drill Pipe Size 4 1/2" Acme
 Rat Hole Size -

JOHNSTON TOOLS:
 1. Packer(s): Type Bob Tail O.D. 6 5/8x2 7/8x21 Type _____ O.D. _____
 Set At 3053' Set At _____

2. Extra Equipment: None,

Number of Copies Requested: 5



PRESSURE: EACH SMALL SQUARE _____ PSI

TIME: EACH SMALL SQUARE _____ MINS.

Test Ticket No. 24539 N

Pressure Recorder: _____

No. L-360

Cap. 4500#

Chart Number _____

Location 3080'

WELL TEMPERATURE 95° F.

BREAKDOWN IN 3 MINUTE INCREMENTS

PRESSURE DATA	
A	Initial Hydrostatic Mud
B	Initial Flow
C	Final Flow
D	Final Shut-In
E	Final Hydrostatic Mud
F	"Initial Shut-In"
Tool open time shown as 60 minutes, Remarks: computed as 57 minutes. Initial shut-in time shown as 30 minutes, computed as 32 minutes. Final shut-in time shown as 30 mins. computed as 31 minutes.	

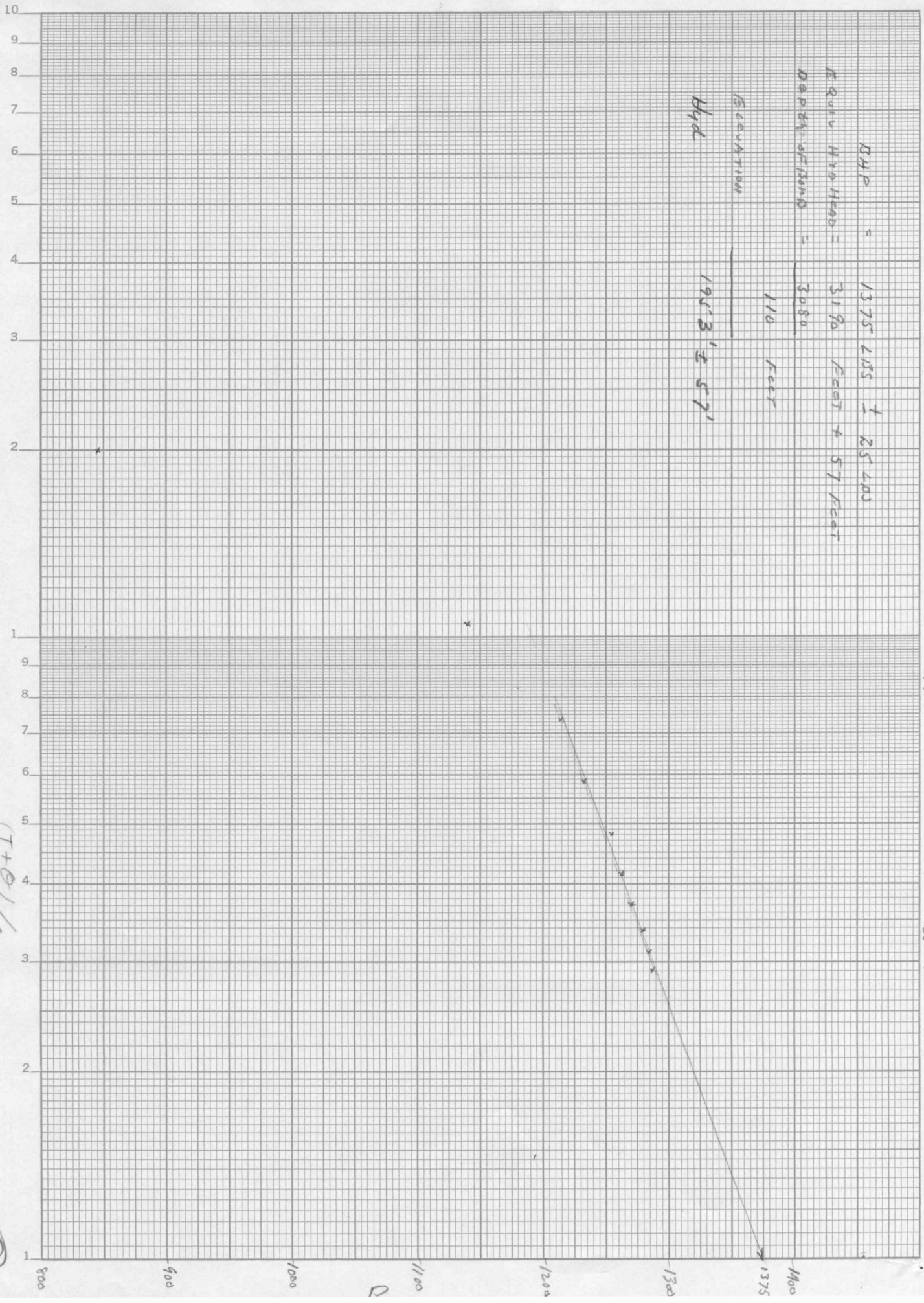
Point	Pressure
Flow Period	
B	144
B-1	144
B-2	147
B-3	149
B-4	152
B-5	155
B-6	158
B-7	158
B-8	161
B-9	161

Point	Pressure
B-10	163
B-11	165
B-12	163
B-13	163
B-14	165
B-15	166
B-16	168
B-17	170
B-18	170
C	170

CONTINUED

(T+0)/B

19



CITIES Service

Bourne #1 #1

Hyd

DESCRIPTION

1953 FEB 57

TYPE = 1375 2.05 ± 25.203
 EQUIV HEAD = 3190 FEET + 57 FEET
 DEPTH OF SOUND = 3080
 110 FEET

TT# 24547 N

T-266

3000 #

0-

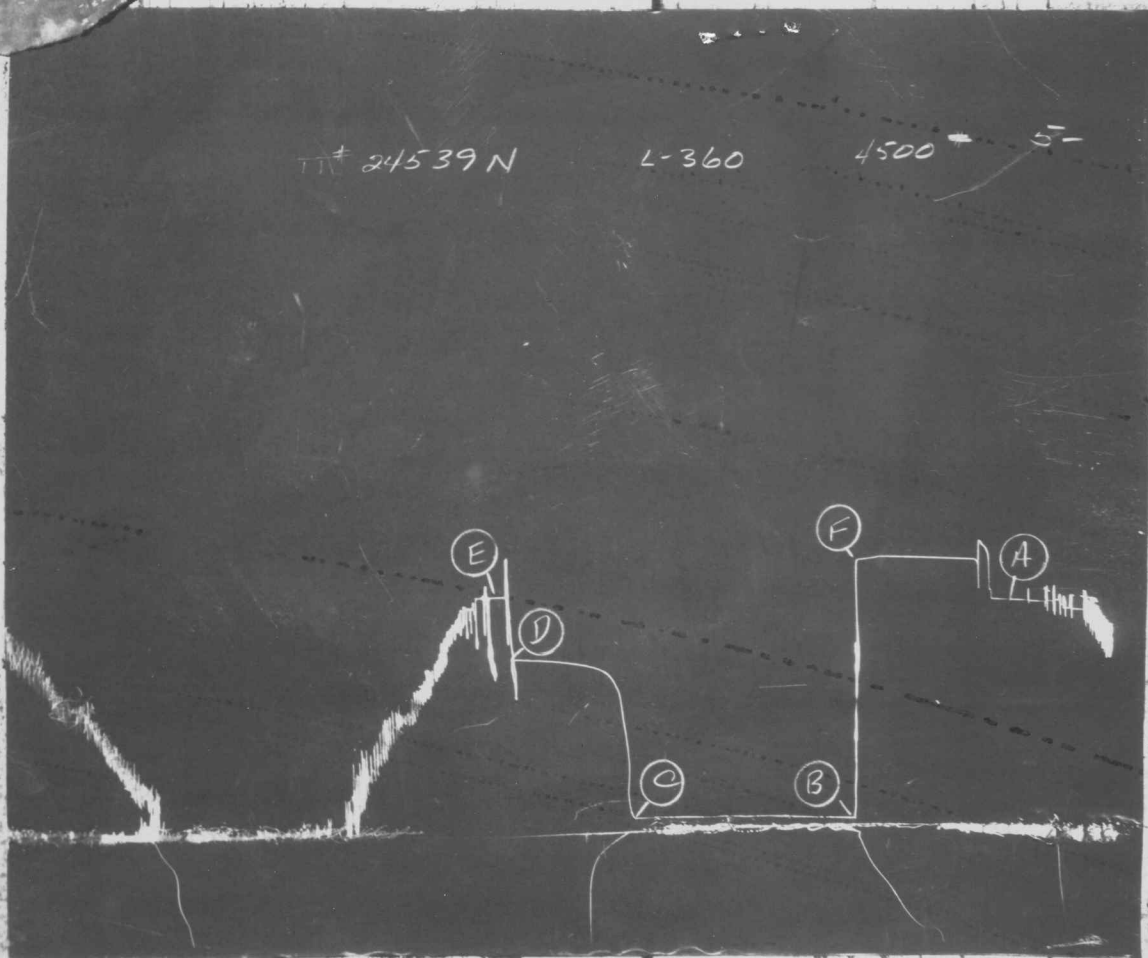


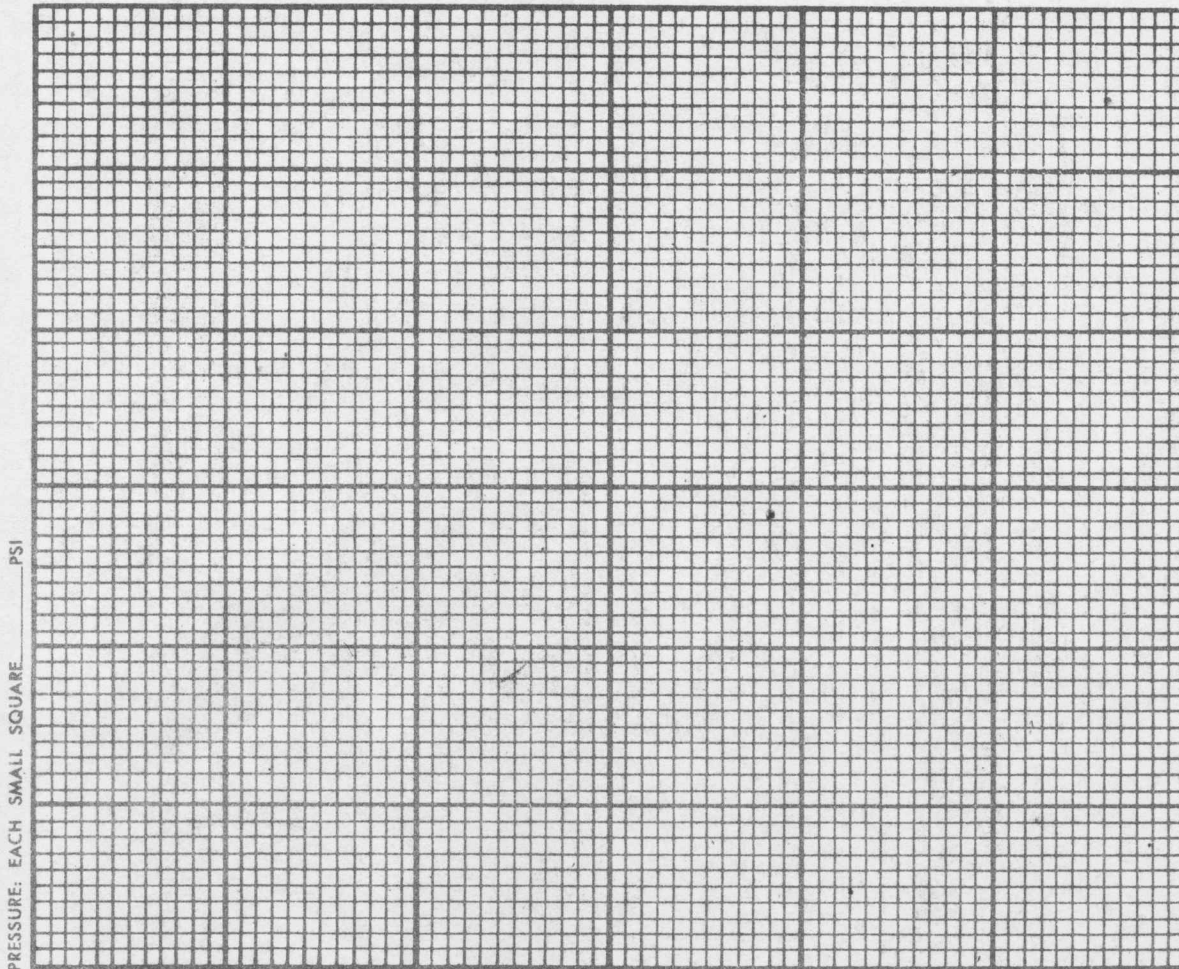
TT# 24539 N

L-360

4500 #

5-





PRESSURE: EACH SMALL SQUARE _____ PSI

TIME: EACH SMALL SQUARE _____ MINS.

Test Ticket No. 24539 N Pressure Recorder: _____ No. L-360 CONTAINED
 Chart Number _____ Cap. 4500#
 WELL TEMPERATURE 95° F. Location 3080'

BREAKDOWN IN 3 MINUTE INCREMENTS

PRESSURE DATA	
A Initial Hydrostatic Mud	1665
B Initial Flow	144
C Final Flow	170
D Final Shut-In	1288
E Final Hydrostatic Mud	1721
F "Initial Shut-In"	

Point	Pressure
Final shut-in	
C	170
C-1	846
C-2	1141
C-3	1214
C-4	1234
C-5	1254

Point	Pressure
C-6	1264
C-7	1272
C-8	1280
C-9	1284
C-10	1288
D	1288

Tool open time shown as 60 minutes,
 Remarks: computed as 57 minutes. Initial shut-in time shown as 30 minutes, computed as 32 minutes. Final shut-in time shown as 30 mins. computed as 31 minutes.

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

DATE 8-11-57

OPEN HOLE TEST NO. 7 WELL: Bowen #1
 FIELD Wild Cat COUNTY Osborne STATE Kansas

COMPANY Cities Service Oil Company
 ADDRESS Box 553; Russell, Kansas
 TEST APPROVED BY V. L. Lynch
 JOHNSTON OPERATOR Alvin Denning TICKET NO. 24545 N

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>				TOTAL DEPTH <u>3590'</u>	
1. Test Interval:	<u>3540'</u>	To	<u>3590'</u>	7. Fluid Cushion: Type	<u>None</u> Amount
2. Tool Open		Hrs.	<u>30</u>	8. Air Chamber Amount	<u>5'</u> Size: <u>4 1/2" FH</u>
3. Initial Shut In		Hrs.	<u>30</u>	9. Did Packer(s) Hold?	<u>Yes</u>
4. Final Shut In		Hrs.	<u>30</u>	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>18'</u> Total,					
<u>18'</u> rotary mud.					

REMARKS: 1 copy, 5-2-61:
Phillips Petroleum Company
3765 Wadsworth Blvd.
Wheat Ridge, Colorado
Attn: Mr. W. S. Frederick

SURFACE INFORMATION

1. Blow:	<u>A few bubbles when bar hit disc.</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
		<u>0#</u>	<u>1/2"</u>

MUD, HOLE, & TOOL DATA

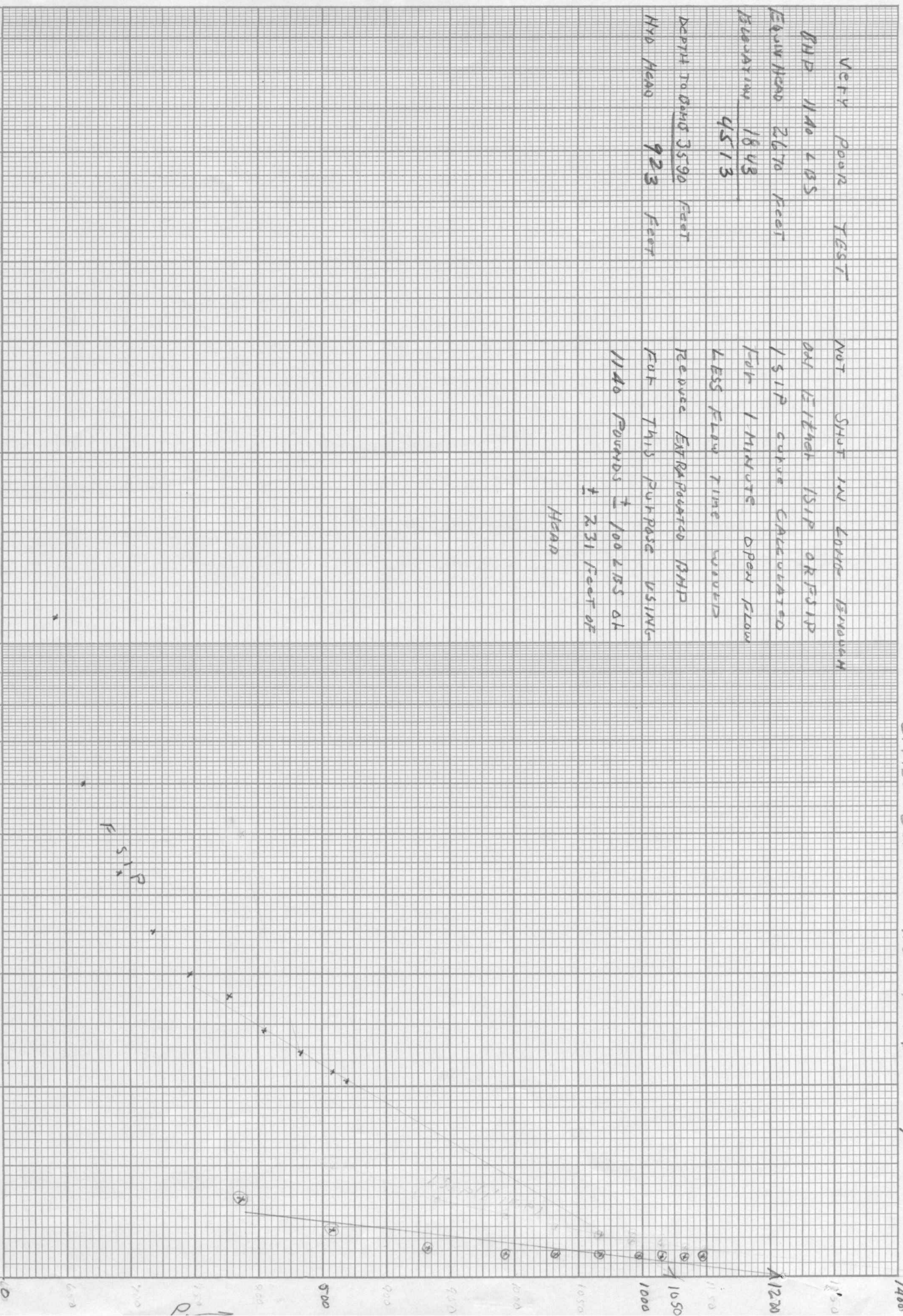
MUD, HOLE & JOHNSTON TOOL DATA			
MUD: Type	<u>Starch</u>	Weight	<u>9.7</u> Viscosity <u>42</u>
HOLE: Main Hole Size	<u>7 7/8"</u>	Drill Pipe Size	<u>4 1/2" Acme</u>
Rat Hole Size	<u>-</u>		
JOHNSTON TOOLS:			
1. Packer(s): Type	<u>Bob Tail</u>	O.D. <u>6 5/8x2 7/8x21"</u>	Type <u>O.D.</u>
Set At	<u>3540'</u>	Set At	
2. Extra Equipment:	<u>None.</u>		

Number of Copies Requested: 5

CITIES Service 130 wavy #6 #7

VERY POOR TEST
 BHP 1140 LBS
 EQUIPMENT 2670 FEET
 RESERVING 1848
 4513
 DEPTH TO DRUG 3590 FEET
 HYD HEAD 923 FEET

NOT SHUT IN LOWE BEHAVIOR
 ON WITH 15IP OR F5IP
 15IP curve CALCULATED
 FOR 1 MINUTE OPEN FLOW
 LESS FLOW TIME WOULD
 REDUCE EXTRAHEAD BHP
 FOR THIS PURPOSE USING
 1140 POUNDS ± 100 LBS AT
 ± 2.31 FEET OF
 HEAD



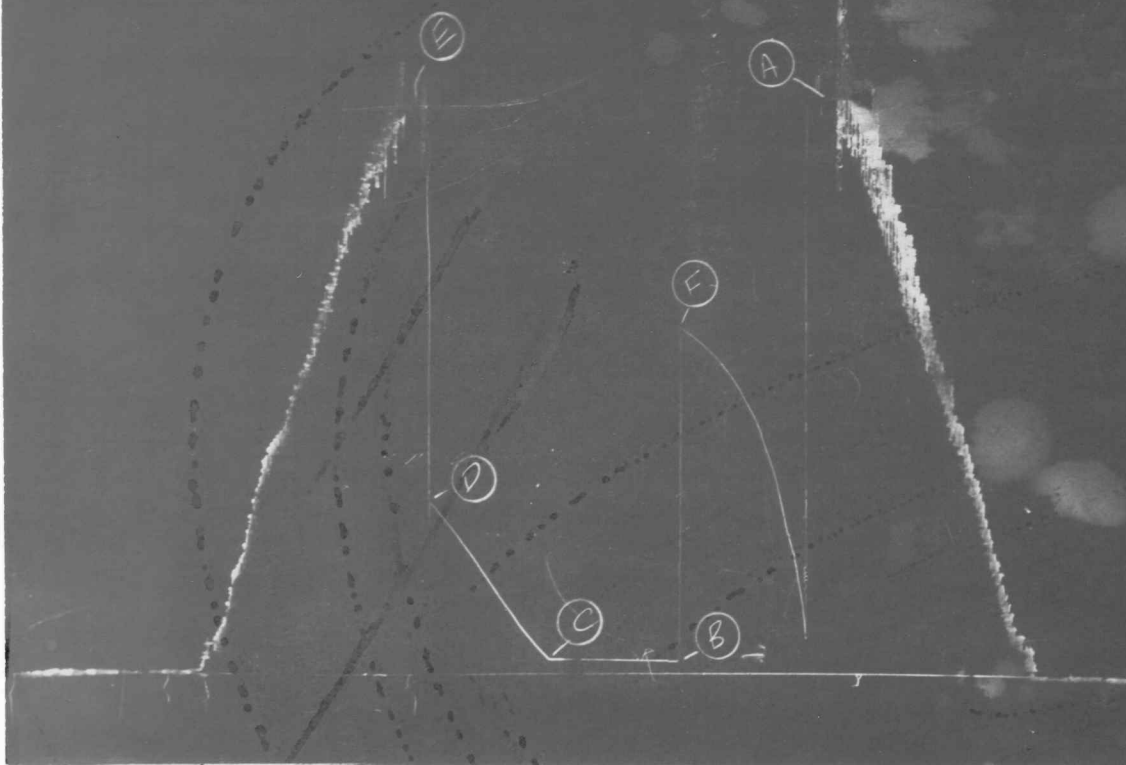
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T#24545 N

T-266

3000 #

5-



OPEN HOLE TEST

JOHNSTON TESTERS, INC.

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

DATE 8-12-57

OPEN HOLE TEST NO. 9 WELL: Bowen #1
 FIELD Wild Cat COUNTY Osborne STATE Kansas

COMPANY Cities Service Oil Company
 ADDRESS Box 553; Russell, Kansas
 TEST APPROVED BY V. L. Lynch
 JOHNSTON OPERATOR Al Denning TICKET NO. 24547 N

GENERAL TEST DATA

TYPE TEST <u>Conventional</u>		TOTAL DEPTH <u>3740'</u>
1. Test Interval: <u>3671'</u> To <u>3740'</u>	7. Fluid Cushion: Type <u>None</u> Amount _____	
2. Tool Open _____ Hrs. <u>30</u> Min	8. Air Chamber Amount <u>None</u> Size: _____	
3. Initial Shut In <u>-</u> 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>1/2"</u> Bottom <u>1/2"</u>	11. Was Test Reversed Out? <u>No</u>	
6. Fluid Recovery <u>1520'</u> Total, _____		
<u>1520'</u> salt water.		

REMARKS:

f 1 copy, 5-2-61;
 Phillips Petroleum Company
 3765 Wadsworth Blvd.
 Wheat Ridge, Colorado
 Attn: Mr. W. S. Frederick

SURFACE INFORMATION

1. Blow: Strong for 30 minutes.

2. Maximum Surface Pressure _____	<u>Off</u>	Did Well Flow? <u>No</u>
Description Or Rate of Flow _____	Time _____	Max. Pressure <u>Off</u>
_____	_____	Size Surface Choke <u>1/2"</u>
_____	_____	_____
_____	_____	_____

MUD, HOLE, & TOOL DATA

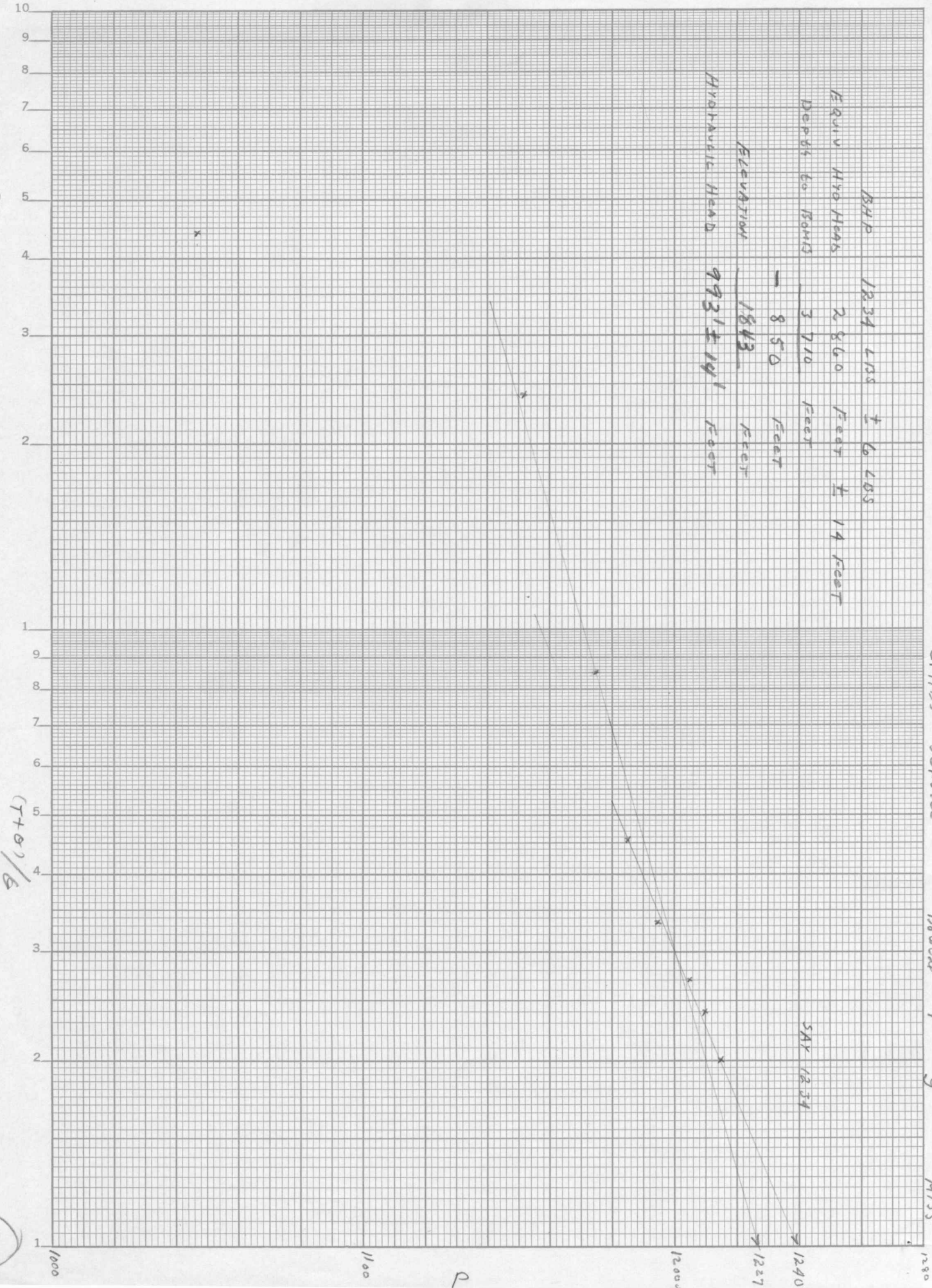
MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Starch, Weight 9.8 Viscosity 36
 HOLE: Main Hole Size 7 7/8" Drill Pipe Size 4 1/2" Acme
 Rat Hole Size -
 JOHNSTON TOOLS:
 1. Packer(s): Type Bob Tail O.D. 6 5/8x2 7/8x21" Type _____ O.D. _____
 Set At 3671' Set At _____
 2. Extra Equipment: None.

Number of Copies Requested: 5



21



(T+0)/B

1000

1100

1200

1227

1240

1280

d

