

Date		Well		Blocker #1		Field		County		Reno		State		Kansas	
Formation Test No.		1		Casing Test No.		-		Test Interval		3047' to 3067'		Test Ticket No.		55360 L	
Company		Twin Drilling Company		Address		1005 Central Building;		Wichita 2,		Kansas					
Tester		Harold Piper		Test Approved By		Toby Elster		No. of DST Reports Requested		5x					
SURFACE INFORMATION												TOOL, HOLE & MUD DATA			
Well Flowed:		No		Amount				Type Test		Conventional					
Formation Tested		Kansas City		Elevation		1409		Ft.							
All Depths Measured From		Kelly Bushing													
Reversed Out:		No		Amount				2895' of 4 1/2" F.H. Drill							
Pipe, 3.8" I.D.															
Recovered:		Rotary Mud		Amount		25'		Circulating sub							
120' of 4 1/2" F.H. Drill								Pipe, 3.8" I.D.							
Disc Valve															
Cross over sub								4' of 3.8" I.D. Air							
Chamber								Cross over sub							
3 1/2" Shut-in tool								3 1/2" Hydraulic tool							
Cross over sub								6-5 /8" Bob Tail Packer							
Set at 3047'								10' of 3 1/2" FH Perforated							
Anchor								6' "T" Recorder Carrier							
4' "L" Recorder Carrier															
Total Depth		3067						Main Hole Size		7-7/8"		Rat Hole Size		-	
Casing Size		-						Liner Size		-					
Bottom Choke Size		1/2"						Mud Type		Starch					
Mud Weight		10.1						Mud Viscosity		34					
Air Chamber		Length		4				Ft.		3.8"					
Remarks:															

Cushion Type
None

Amount

Pressure

TIME DATA

Initial Shut-in - Hrs. 30 Mins.
Flow Period - Hrs. 30 Mins.
Final Shut-in - Hrs. 10 Mins.

PRESSURE READING (P.S.I.G.)

Recorder No. T-142
Capacity (P.S.I.G.) 3000
Location 3059'

A Initial Hyd. Mud. 1592
B Initial Shut-in 1305
C Initial Flow 15
D Final Flow 30
E Final Shut-in 1088
F Final Hyd. Mud. 1568

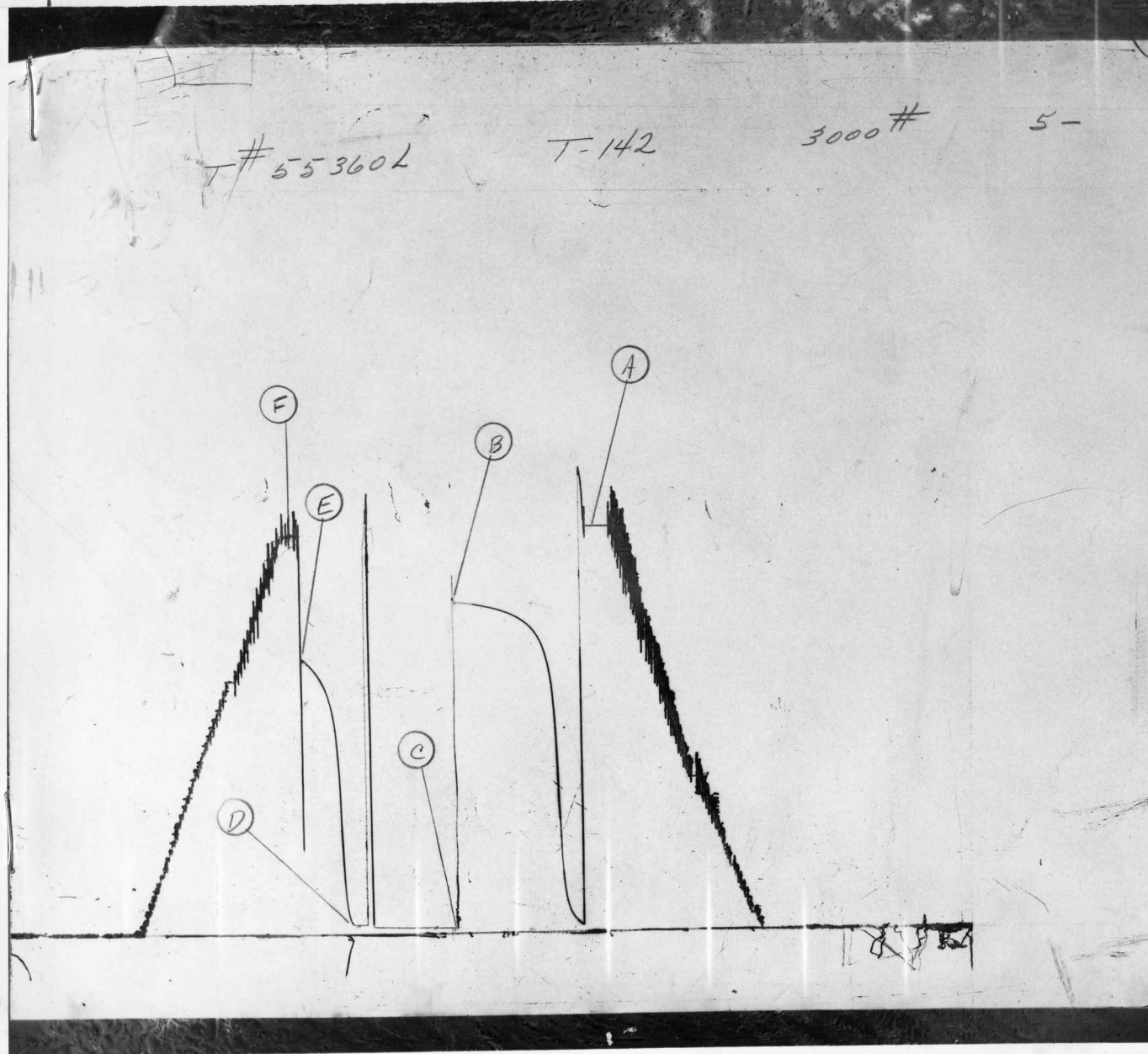
REMARKS

Recorder No.
Capacity (P.S.I.G.)
Location

A Initial Hyd. Mud
B Initial Shut-in
C Initial Flow
D Final Flow
E Final Shut-in
F Final Hyd. Mud

REMARKS

Well Temperature 108 ° F.



Date	11-29-58	Well	Blocker #1	Field	Wild Cat	County	Reno	State	Kansas
Formation Test No.	2	Casing Test No.	-	Test Interval	3211' to 3240'	Test Ticket No.		55335 L	
Company	Twin Drilling Company			Address 1005 Central Building; Wichita 2, Kansas					
Tester	Wayne W. Elder			Test Approved By	Toby Elster	No. of DST Reports Requested 5 X			
SURFACE INFORMATION					TOOL, HOLE & MUD DATA				
Well Flowed:					Amount		Type Test		
No.							Conventional		
							Formation Tested		
							Kansas City		
							Elevation 1406 DFt.		
							All Depths Measured From		
							Kelly Bushing 1409'		
							3060' of 4 1/2" FH drill pipe,		
							3.8" ID----		
Reversed Out:					Amount				
No.									
Recovered:					Amount		4 1/2" circulating sub-----		
Muddy water:					195'		120' of 4 1/2" FH drill pipe--		
							Disc valve-----		
							Cross over sub-----		
							5' of 4 1/2" FH air chamber,		
							3.8" ID----		
							Cross over sub-----		
							3 1/2" "C" hyd. tool-----		
							Cross over sub-----		
							6 5/8" Bob Tail packer set		
							@ 3211'-----		
							20' of 4 1/2" FH perforated		
							anchor-----		
							6' "T" recorder carrier---		
							4' "L" recorder carrier---		
							Total Depth		
							3240 Ft.		
							Main Hole Size		
							7 7/8" Rat Hole Size		
							Casing Size		
							- Liner Size		
							Bottom Choke Size		
							1/8" Mud Type		
							Starch		
							Mud Weight		
							9.9 Mud Viscosity		
							37		
							Air Chamber: Length		
							5' Ft. 3.8" ID		
Remarks:									

Cushion Type
None

Amount

Pressure

TIME DATA

Initial Shut-in _____ Hrs. 30 Mins.
Flow Period 1 Hrs. 30 Mins.
Final Shut-in _____ Hrs. 30 Mins.

PRESSURE READING (P.S.I.G.)

Recorder No. _____ T-250
Capacity (P.S.I.G.) _____ 3000
Location _____ 4232'

A Initial Hyd. Mud. _____ 1687
B Initial Shut-in _____ 1435
C Initial Flow _____ 33
D Final Flow _____ 125
E Final Shut-in _____ 1100
F Final Hyd. Mud. _____ 1681

REMARKS _____

Recorder No. _____
Capacity (P.S.I.G.) _____
Location _____

A Initial Hyd. Mud _____
B Initial Shut-in _____
C Initial Flow _____
D Final Flow _____
E Final Shut-in _____
F Final Hyd. Mud _____

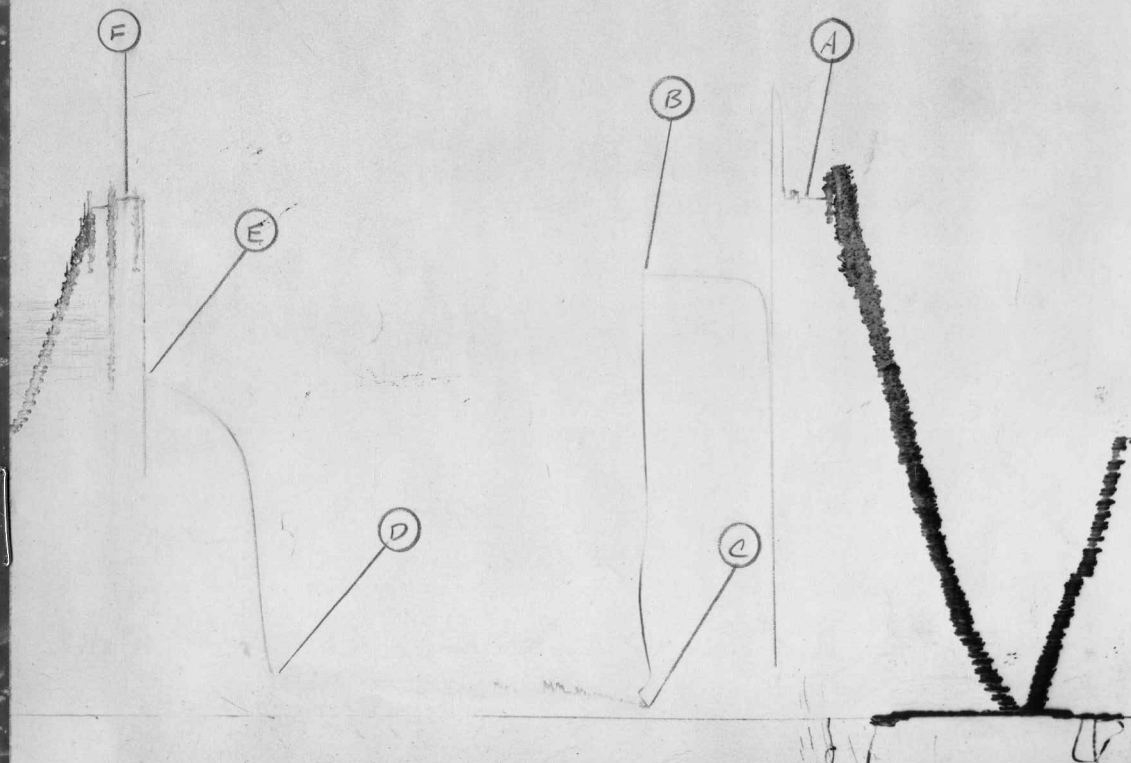
REMARKS _____

Well Temperature _____ 119 ° F.

T# 55335L

T-250

3000# 5-



Date 11-30-78 Well Blocker #1 Field 3564' to 3587' County Reno State Kansas
 Formation Test No. 3 Casing Test No. - Test Interval - Test Ticket No. 55362 L
 Company Twin Drilling Company Address 1005 Central Building; Wichita 2, Kansas
 Tester Harold Piper Test Approved By Toby Elster No. of DST Reports Requested 5x

SURFACE INFORMATION

TOOL, HOLE & MUD DATA

Well Flowed: Gas Amount -

Reversed Out: No Amount -

Recovered: Gas cut mud Amount 205'
Gas cut muddy water 60'
Gas cut salt water 180'

Blow -

Type Test Conventional
 Formation Tested Mississippi Elevation 1409 Ft.
 All Depths Measured From Kelly Bushing

3406' of $4\frac{1}{2}$ " F.H. Drill
 Pipe, 3.8" I.D.

Circulating sub
 120' of $4\frac{1}{2}$ " F.H. Drill
 Pipe, 3.8" I.D.

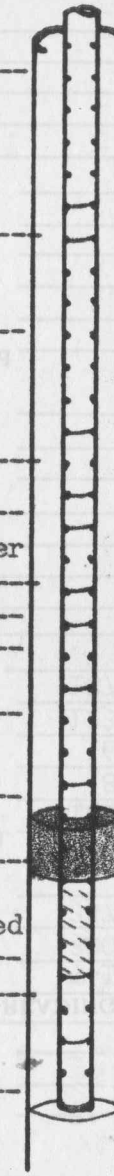
Disc Valve
 Cross over sub
 5' of $4\frac{1}{2}$ " F.H. Air Chamber
 3.8" I.D.
 Cross over sub
 $3\frac{1}{2}$ " Shut-in tool

$3\frac{1}{2}$ " Hydraulic tool

Maximum Surface Pressure -
 Description (rate of flow)

	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool:	10:57	-	$3\frac{1}{4}$ "
Opened tool to surface	11:17	-	$3\frac{1}{4}$ "
Gas to surface	11:20	-	$3\frac{1}{4}$ "
Flowing 362 M.C.F. gas per day	11:23	.50	$3\frac{1}{4}$ "
Flowing 396 M.C.F. gas per day	11:27	.60	$3\frac{1}{4}$ "
Flowing 458 M.C.F. gas per day	11:37	.80	$3\frac{1}{4}$ "
Flowing 458 M.C.F. gas per day	11:47	.80	$3\frac{1}{4}$ "
Flowing 486 M.C.F. gas per day	11:57	.90	$3\frac{1}{4}$ "
Flowing 486 M.C.F. gas per day	12:07	.90	$3\frac{1}{4}$ "
Flowing 486 M.C.F. gas per day	12:17	.90	$3\frac{1}{4}$ "
Flowing 486 M.C.F. gas per day	12:47	.90	$3\frac{1}{4}$ "
Flowing 458 M.C.F. gas per day	12:57	.80	$3\frac{1}{4}$ "
Flowing 428 M.C.F. gas per day	1:07	.70	$3\frac{1}{4}$ "
Flowing 428 M.C.F. gas per day	1:17	.70	$3\frac{1}{4}$ "

Cross over sub
 6-5/8" Bob Tail Packer
 Set at 3564'
 13' of $3\frac{1}{2}$ " F.H. Perforated
 Anchor
 6' "T" Recorder Carrier
 4' "I" Recorder Carrier



Total Depth 3587 Ft.
 Main Hole Size 7-7/8" Rat Hole Size -
 Casing Size - Liner Size -
 Bottom Choke Size 1/2" Mud Type Starch
 Mud Weight 9/9 Mud Viscosity 40
 Air Chamber Length 5 Ft. 3.8" I.D.

Remarks:

Cushion Type
None

Amount

Pressure

TIME DATA

Initial Shut-in — Hrs. 20 Mins.
Flow Period 2 Hrs. — Mins.
Final Shut-in — Hrs. 30 Mins.

PRESSURE READING (P.S.I.G.)

Recorder No. T-142
Capacity (P.S.I.G.) 3000
Location 3579'

A Initial Hyd. Mud. 1896
B Initial Shut-in 1429
C Initial Flow 85
D Final Flow 164
E Final Shut-in 1232
F Final Hyd. Mud. 1872

REMARKS

Recorder No. _____
Capacity (P.S.I.G.) _____
Location _____

A Initial Hyd. Mud. _____
B Initial Shut-in _____
C Initial Flow _____
D Final Flow _____
E Final Shut-in _____
F Final Hyd. Mud. _____

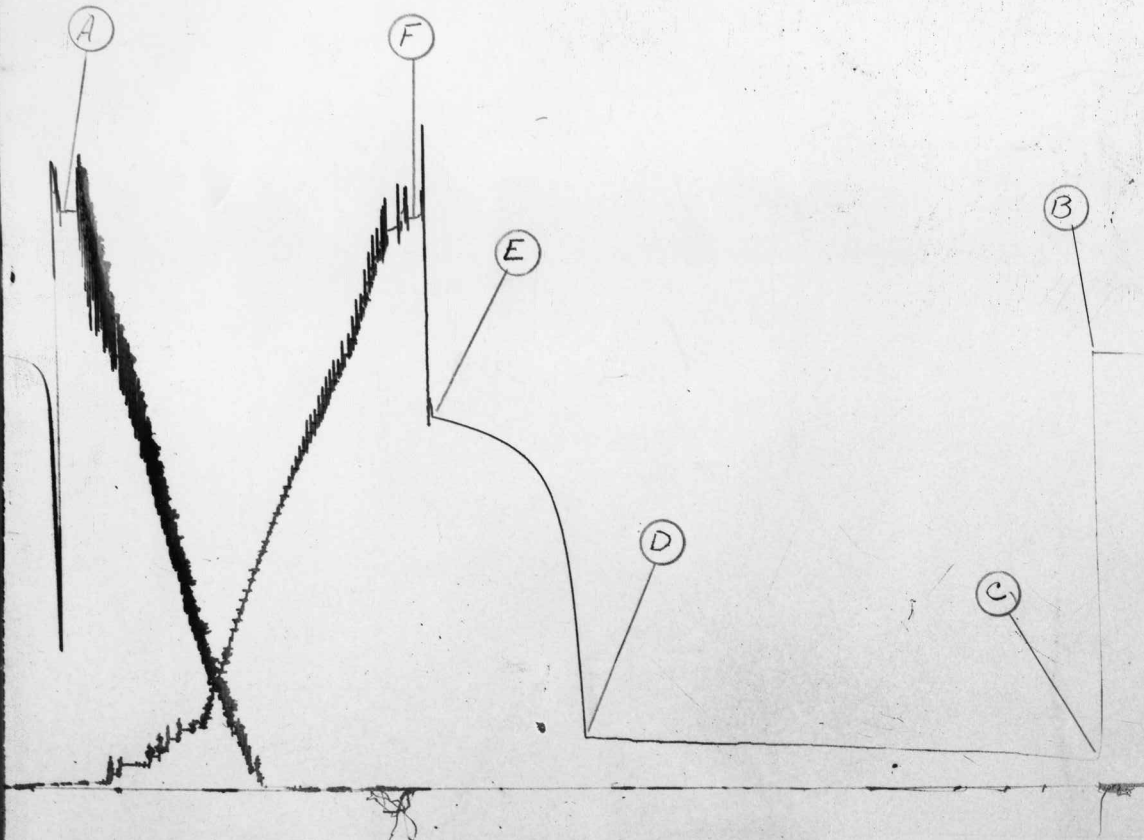
REMARKS

Well Temperature 110 °F.

T# 553621

T-142

3000 # 5-



Date 12-4-58 Well Blocker #1 Field Wild Cat County Rego State Kansas
 Formation Test No. 4 Casing Test No. -- Test Interval 3916' to 3930' Test Ticket No. 55310 L
 Company Twin Drilling Company Address 1005 Central Bldg., Wichita, Kansas
 Tester Wayne W. Elder Test Approved By Toby Elster No. of DST Reports Requested 5 X
SURFACE INFORMATION **TOOL, HOLE & MUD DATA**

Well Flowed: Amount
 No.

Type Test Conventional
 Formation Tested Misner Sand Elevation 1406 Ft.
 All Depths Measured From Kelly Bushing, 1409'

Reversed Out: Amount
 No.

Recovered: Amount
 Gas in drill pipe: 960'
 Oil and gas cut mud: 60'
 Free oil: 240'
 Oil and gas cut water: 240'
 Water, very slightly oil cut: 600'

3767' of $4\frac{1}{2}$ " FH drill pipe
 3.8" ID--

Blow Fair blow increasing to a strong blow in 5 minutes.
Strong remainder of test.

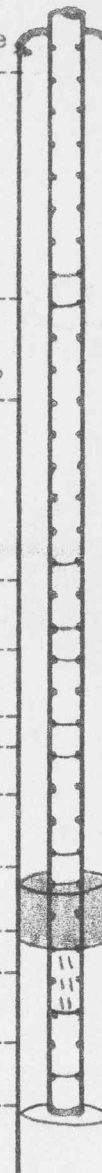
Circulating sub--
 120' of $4\frac{1}{2}$ " FH drill pipe,
 3.8" ID--

Maximum Surface Pressure --
 Description (rate of flow)

	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool:	1:45 PM	-	$3/4$ "
Opened tool to surface:	2:05 PM	-	$3/4$ "

Disc valve--
 Cross over sub--
 4' of $4\frac{1}{2}$ " FH air chamber,
 3.8" ID--
 Cross over sub--
 $3\frac{1}{2}$ " "C" hydraulic tool--

Cross over sub--
 6 $5/8$ " Bob Tail packer
 set @ 3916'
 5' of $3\frac{1}{2}$ " FH perf. anchor--
 $5\frac{1}{2}$ " "T" recorder carrier--
 $3\frac{1}{2}$ " "L" recorder carrier--



Remarks:

Total Depth 3930 Ft.
 Main Hole Size 7 $7/8$ " Rat Hole Size --
 Casing Size -- Liner Size --
 Bottom Choke Size $1/2$ " Mud Type Starch
 Mud Weight 10 Mud Viscosity 42

Cushion Type
None

Amount

Pressure

TIME DATA

Initial Shut-in _____ Hrs. 20 Mins.
Flow Period _____ 1 Hrs. _____ Mins.
Final Shut-in _____ Hrs. 30 Mins.

PRESSURE READING (P.S.I.G.)

Recorder No. _____ T-59
Capacity (P.S.I.G.) _____ 3000
Location _____ 3922'

A Initial Hyd. Mud. _____ 2104
B Initial Shut-in _____ 1576
C Initial Flow _____ 19
D Final Flow _____ 468
E Final Shut-in _____ 1407
F Final Hyd. Mud _____ 2118

REMARKS

Recorder No. _____
Capacity (P.S.I.G.) _____
Location _____

A Initial Hyd. Mud _____
B Initial Shut-in _____
C Initial Flow _____
D Final Flow _____
E Final Shut-in _____
F Final Hyd. Mud _____

REMARKS

Well Temperature _____ 128 _____ °F.



Date 12-5-58 Well Blocker #1 Field Wild Cat County Reno State Kansas
Formation Test No. 5 Casing Test No. -- Test Interval 3982' to 3987' Test Ticket No. 55311 L
Company Twin Drilling Company Address 1005 Central Bldg.; Wichita, Kansas
Tester Wayne W. Elder Test Approved By Toby Elster No. of DST Reports Requested 5x

SURFACE INFORMATION

TOOL, HOLE & MUD DATA

Well Flowed:
No.

Amount

Type Test ConventionalFormation Tested Viola Elevation 1406DF Ft.All Depths Measured From Kelly Bushings, 1409'Reversed Out: @ 10:00 AM for 40 minutes with 250 P.S.I.G.
Water:Amount
2490'

Recovered:

Amount

Blow Strong blow throughout test.Maximum Surface Pressure --
Description (rate of flow)

Time

Pressure
(P.S.I.G.)Surface
Choke

Opened Tool:

7:30 AM

-

-

Opened tool to surface:

7:50 AM

-

-

Remarks:

3827' of $4\frac{1}{2}$ " FH drill pipe
3.8" ID

Circulating sub

120' of $4\frac{1}{2}$ " FH drill pipe,
3.8" ID

Disc valve

Cross over sub

4' of $4\frac{1}{2}$ " FH air chamber,
3.8" ID

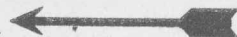
Cross over sub

 $3\frac{1}{2}$ " "C" hyd. tool

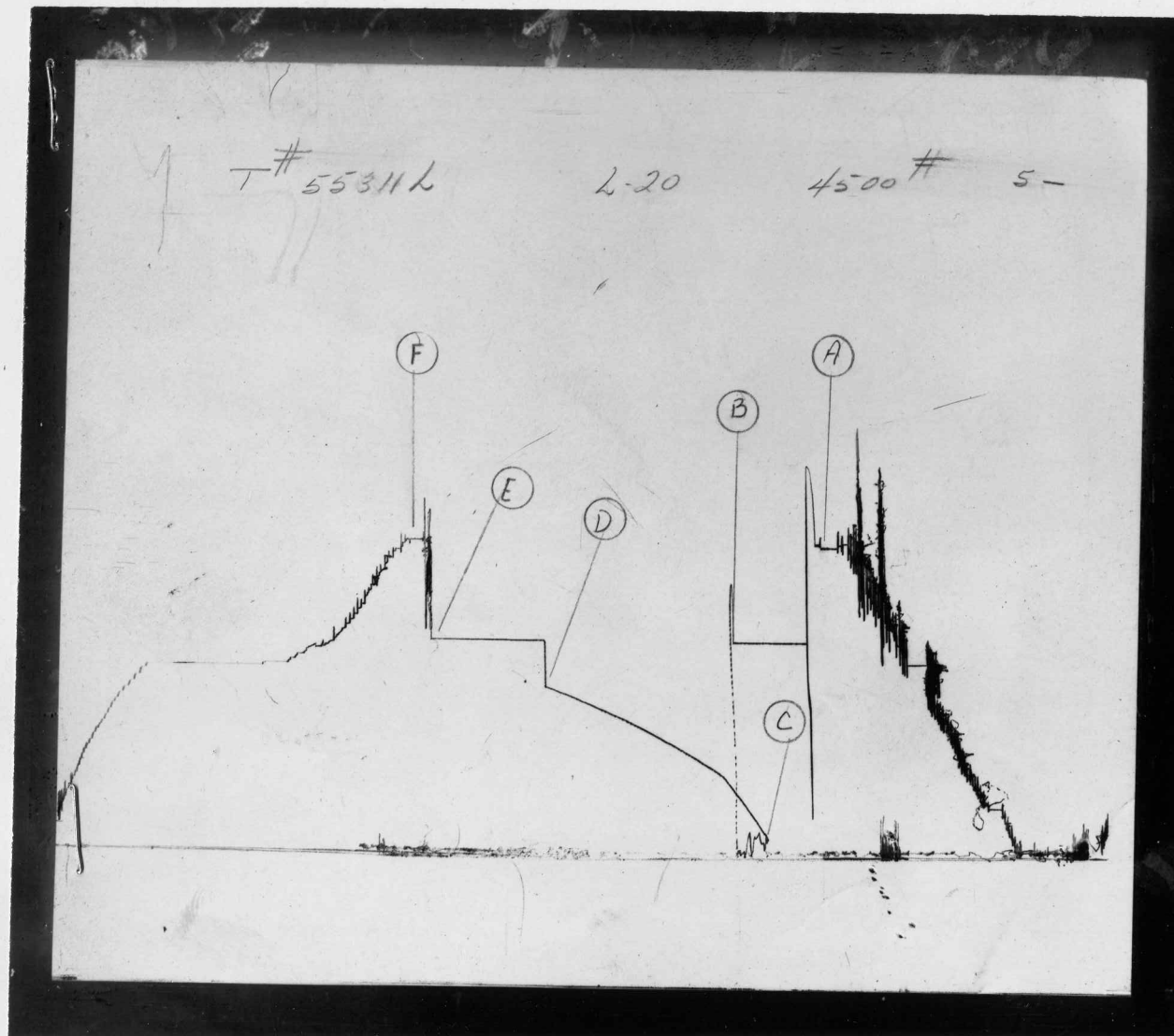
"T" recorder carrier

Cross over sub

6 5/8" Bob Tail packer
set @ 3982' $1\frac{1}{2}$ ' of $3\frac{1}{2}$ " FH perf. anchor $3\frac{1}{2}$ ' "L" recorder carrierTotal Depth 3987 Ft.Main Hole Size 7 7/8" Rat Hole Size --Casing Size -- Liner Size --Bottom Choke Size $\frac{1}{2}$ " Mud Type StarchMud Weight 10 Mud Viscosity 42Air Chamber: Length 4 Ft. 3.8" I.D.



TIME



TIME DATA

Initial Shut-in _____ Hrs. 20 Mins.
Flow Period 1 Hrs. _____ Mins.
Final Shut-in _____ Hrs. 30 Mins.

PRESSURE READING (P.S.I.G.)

Recorder No. L-20
Capacity (P.S.I.G.) 4500
Location 3984'

A Initial Hyd. Mud. 2130
B Initial Shut-in 1446
C Initial Flow 0
D Final Flow 1158
E Final Shut-in 1450
F Final Hyd. Mud. 2160

REMARKS

Recorder No. _____
Capacity (P.S.I.G.) _____
Location _____

A Initial Hyd. Mud _____
B Initial Shut-in _____
C Initial Flow _____
D Final Flow _____
E Final Shut-in _____
F Final Hyd. Mud _____

REMARKS

Well Temperature 133 °F.