

Date 8-5-59 Well BALMAN #24 County DUCHE State KANSAS
Formation Test No. 1 Casing Test No. - Test Interval 1670' to 1712' Test Ticket No. 58137 L
Company Cities Service Oil Company Address Box 632, El Dorado, Kansas
Tester Guy M. Knipe Test Approved By Kent Dixon No. of DST Reports Requested 5
SURFACE INFORMATION
TOOL, HOLE & MUD DATA

Well Flowed: No Amount -
Type Test Straddle Elevation 1381 Ft.

Reversed Out: No Amount -
Formation Tested - Kelly bushing.

Reversed Out: No Amount -
All Depths Measured From 1495' of 4 1/2" F.H. Drill
Pipe, 3.8" I.D. -

Reversed Out: No Amount -
Circulating Sub -

Reversed Out: No Amount -
62' of 4 1/2" F.H. Drill
Pipe, 3.8" I.D. -

Recovered: - Amount 52'
59' of 4 1/2" F.H. X.H.
Drill Collar, 2.5" I.D. -

Recovered: - Amount 52'
Drilling mud, specked very lightly with oil

Recovered: - Amount 52'
Cross-over Sub -

Recovered: - Amount 52'
F.H. Disc Valve -

Recovered: - Amount 52'
31' of 4 1/2" F.H. Air
Chamber, 3.8" ID -

Recovered: - Amount 52'
Cross-over Sub -

Recovered: - Amount 52'
3 1/2" Shut-in Hyd. Tool -

Recovered: - Amount 52'
6' Recorder Carrier -

Recovered: - Amount 52'
Cross-over Sub -

Recovered: - Amount 52'
7 1/4" Bob Tail Packer
set @ 1670' -

Recovered: - Amount 52'
33' of 3 1/2" F.H. Perf.
Anchor -

Recovered: - Amount 52'
6' Recorder Carrier -

Recovered: - Amount 52'
Cross-over Sub -

Recovered: - Amount 52'
7 1/2" Conv. Packer set at
1712' -

Recovered: - Amount 52'
62' of Drill Pipe -

Recovered: - Amount 52'
17' of Perforated Anchor
5' Recorder Carrier -

Recovered: - Amount 52'
Total Depth 1802 Ft.
Main Hole Size 8 3/4" Rat Hole Size -
Casing Size - Liner Size -
Bottom Choke Size 5/8" Mud Type Gel.
Mud Weight 9.7 Mud Viscosity 38

Remarks: -

TIME

TIME DATA

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

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

Recorder No. T-321
 Capacity (P.S.I.G.) 3000
 Location 1681'

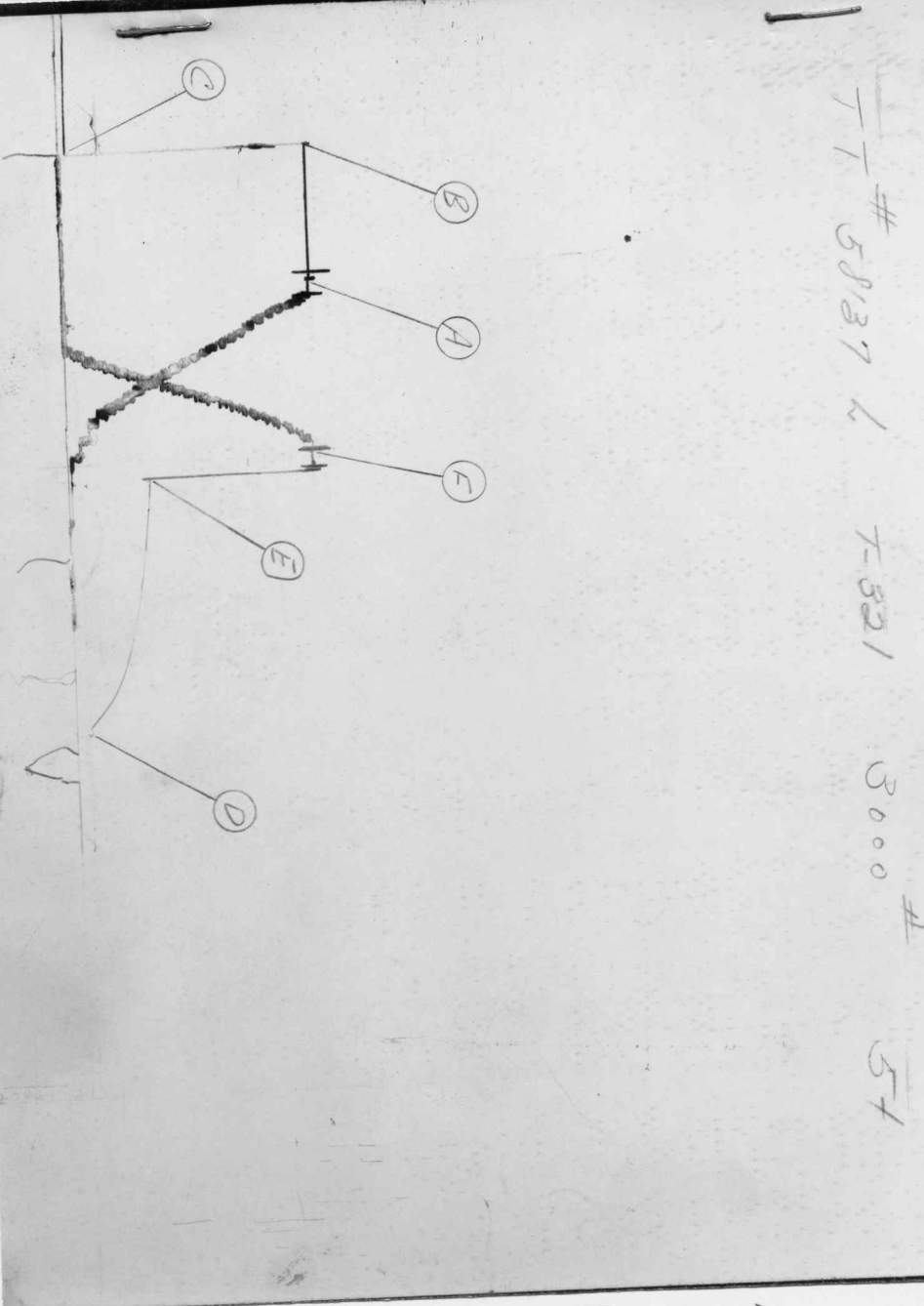
A Initial Hyd. Mud. 803
 B Initial Shut-in 809 Undet.
 C Initial Flow 21
 D Final Flow 40
 E Final Shut-in 265
 F Final Hyd. Mud 799

REMARKS

PRESSURE

Recorder No. L-418
 Capacity (P.S.I.G.) 4500
 Location 1800'
 A Initial Hyd. Mud 878
 B Initial Shut-in _____
 C Initial Flow _____
 D Final Flow _____
 E Final Shut-in _____
 F Final Hyd. Mud 878
 REMARKS A-1 436
 Below Straddle.

Well Temperature 108 ° F.



Cushion Type Amount Pressure

TIME DATA

Initial Shut-in _____ Hrs. 30 Mins.
 Flow Period 2 Hrs. _____ Mins.
 Final Shut-in 1 Hrs. _____ Mins.

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

Recorder No. T-321
 Capacity (P.S.I.G.) 3000
 Location 1681'

A Initial Hyd. Mud. 803
 B Initial Shut-in 809 Undet.
 C Initial Flow 21
 D Final Flow 40
 E Final Shut-in 265
 F Final Hyd. Mud 799

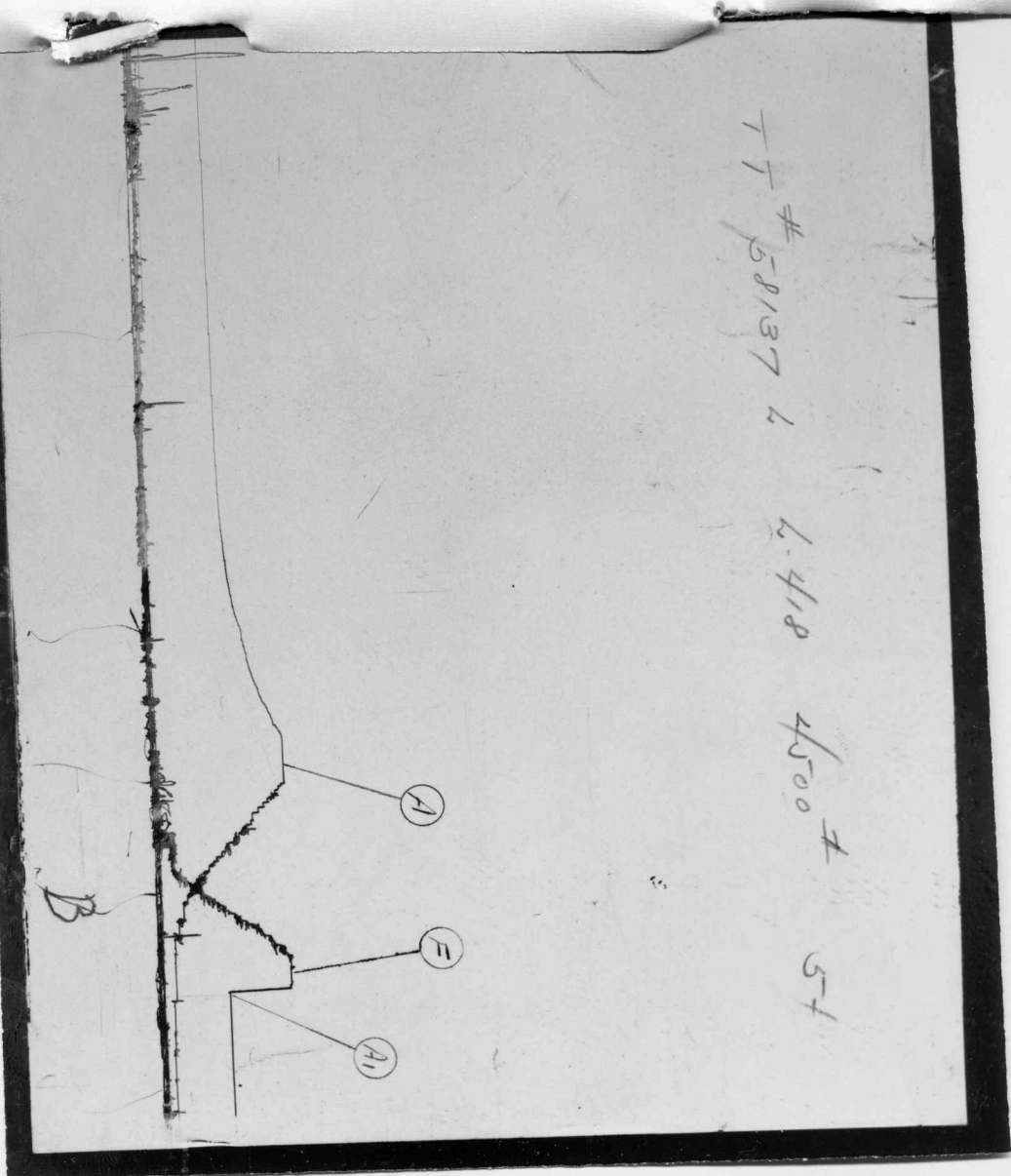
REMARKS

Recorder No. L-418
 Capacity (P.S.I.G.) 4500
 Location 1800'

A Initial Hyd. Mud 878
 B Initial Shut-in _____
 C Initial Flow _____
 D Final Flow _____
 E Final Shut-in _____
 F Final Hyd. Mud 878
 REMARKS A-1 436
 Below Straddle.

Well Temperature 108 °F.

TIME



Date _____ Well _____ Field _____ 1975 to 2015 County _____ Butler State _____ Kansas

Formation Test No. 2 Casing Test No. _____ Test Interval _____ Address Box 632; Eldorado, Kansas Test Ticket No. 58138 L

Company Cities Service Oil Company Tester Cuy M. Knipe Test Approved By _____ SURFACE INFORMATION No. of DST Reports Requested 5

Well Flowed: No Amount _____ Type Test Conventional TOOL, HOLE & MUD DATA

Reversed Out: No Amount _____ Formation Tested Kansas City L Elevation 1381 Ft.

Recovered: Light oil specked drilling mud Amount 110¹ All Depths Measured From Kelly Busting

Blow Fair blow for 45 minutes, weakening remainder of test. Pipe, 3.8" I.D. _____

Maximum Surface Pressure _____ Circulating sub _____

Description (rate of flow) _____ 62' of 4 1/2" F.H. Drill

Opened Tool: Opened tool to surface 3:07 PM _____ Pipe, 3.8" I.D. _____

3:37 PM _____ 59' of 4 1/2" F.H. Drill

_____ Collar, 2.5" I.D. _____

_____ Cross over sub _____

_____ Disc Valve _____

_____ 31' of 4 1/2" F.H. Air

_____ Chamber, 3.8" I.D. _____

_____ Cross over sub _____

_____ Cross over sub _____

_____ 3 1/2" Shut-in hydraulic

_____ tool _____

_____ Cross over sub _____

_____ 7 1/4" Bob Tail Packer

_____ Set at 1975' _____

_____ 30' of 3 1/2" F.H. Perforated

_____ Anchor _____

_____ 6' Recorder Carrier _____

_____ 4' Recorder Carrier _____

_____ Total Depth 2015 _____

_____ Main Hole Size 8-3/4" Rat Hole Size _____

_____ Casing Size _____ Liner Size _____

_____ Bottom Choke Size 5/8" Mud Type Gel.

_____ Mud Weight 10.0 Mud Viscosity 38

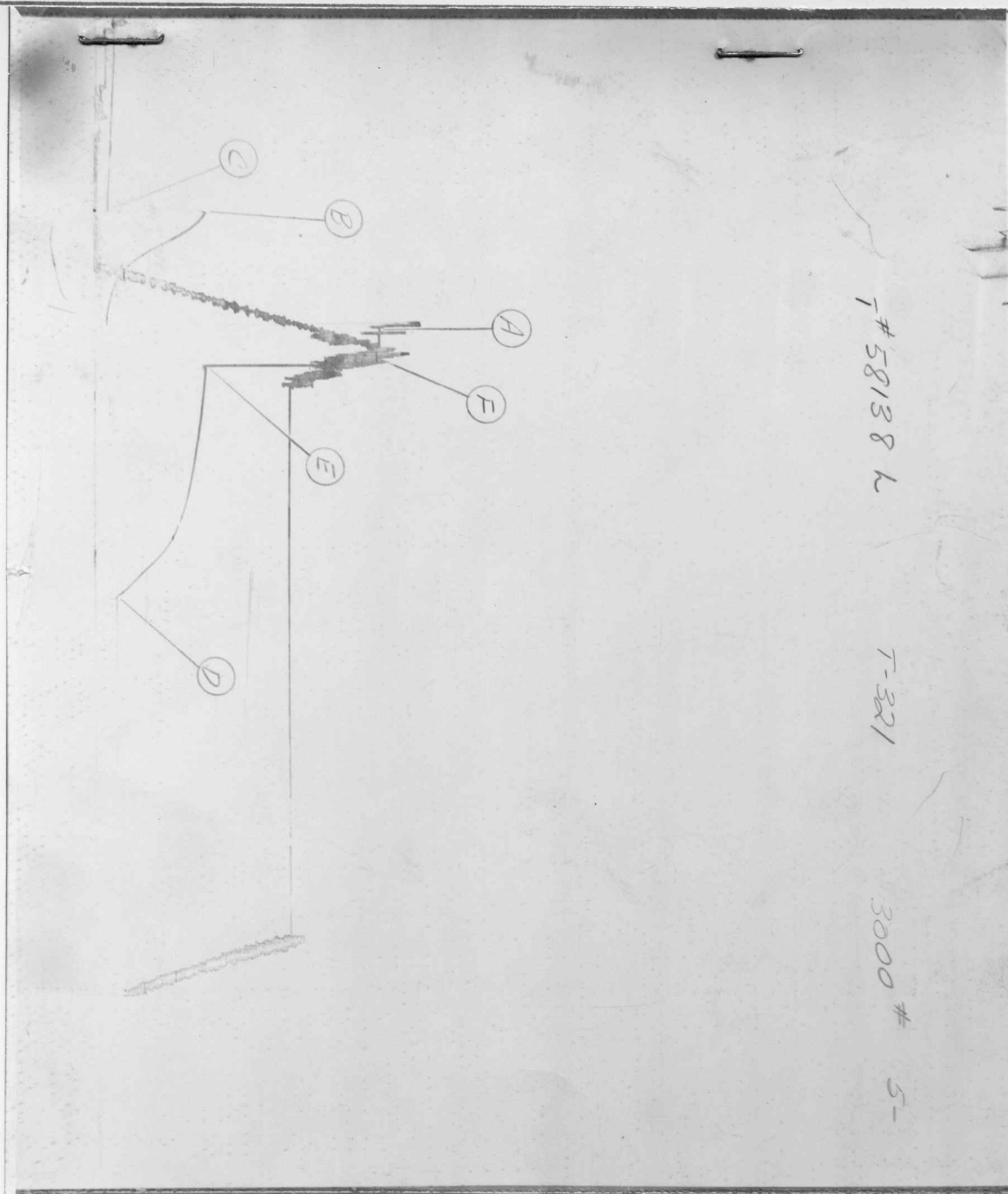
Remarks: Had engine trouble going in hole, shut down 2 hours and 30 mins.

TIME

#58138 L

T-321

3000 # 5-



Form J-130

All these methods are carried out by allowing only a minimum of formation fluid to be produced. This initial shut-in pressure is the best method yet devised for recording the original, undisturbed reservoir pressure of a formation.

Z — Special pressure points such as pumping pressure recorded for formation breakdown.

TIME DATA

Initial Shut-in _____ Hrs. 30 Mins.
Flow Period _____ Hrs. 38 Mins.
Final Shut-in _____ Hrs. 1 Mins.

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

Recorder No. _____ 1-321
Capacity (P.S.I.G.) _____ 3000
Location _____ 2007'

A Initial Hyd. Mud. _____ 1041
B Initial Shut-in _____ 406
C Initial Flow _____ 46
D Final Flow _____ 82
E Final Shut-in _____ 409
F Final Hyd. Mud _____ 1034

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 _____ 106 _____ °F.

sure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole, the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened the pressure of the

Date 8-6-29 Well LAUBAN #44 Field 2420' to 2440' County State Test Ticket No. 58139 L
Formation Test No. 3 Casing Test No. - Test Interval
Company Cities Service Oil Company Address Box 632; Eldorado, Kansas
Tester Guy M. Knipe Test Approved By Kent C. Dixon No. of DST Reports Requested 5
SURFACE INFORMATION TOOL, HOLE & MUD DATA

Well Flowed: NO Amount Type Test Formation Tested Ar buckle Elevation 1281 Ft.
All Depths Measured From Kelly Bushing

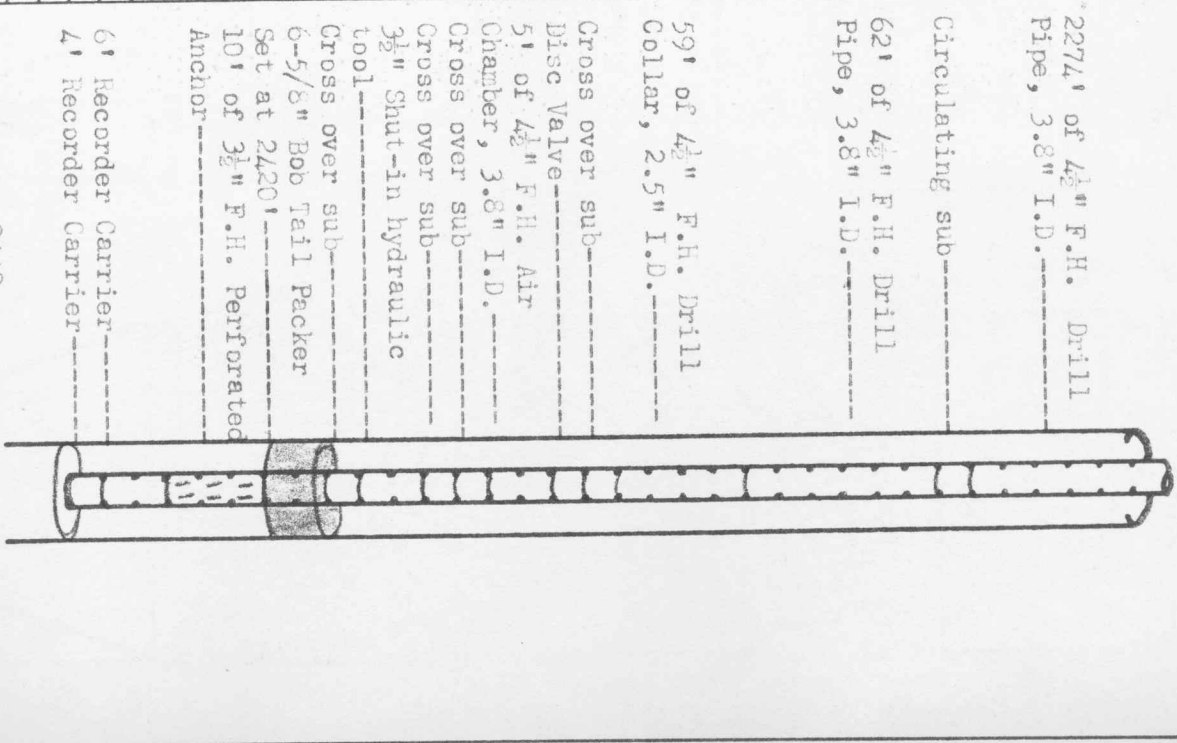
Reversed Out: NO Amount 2274' of 4 1/2" F.H. Drill
Pipe, 3.8" I.D.

Recovered: Free oil Amount 59' 62' of 4 1/2" F.H. Drill
Heavy oil cut mud Amount 12' Pipe, 3.8" I.D.

Blow Weak blow throughout test.

Maximum Surface Pressure Description (rate of flow) Time Pressure (P.S.I.G.) Surface Choke
3:09 AM
3:39 AM

Opened Tool: 3:09 AM
Opened tool to surface 3:39 AM



Remarks: Total Depth 2440 Ft.
Main Hole Size 8-3/4" Rat Hole Size -
Casing Size 5/8" Liner Size -
Bottom Choke Size 10.1 Mud Type Gel.
Mud Weight 7.6 Mud Viscosity 39

TIME

TIME DATA

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

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

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

A Initial Hyd. Mud. _____ 1267
B Initial Shut-in _____ 685
C Initial Flow _____ 16
D Final Flow _____ 43
E Final Shut-in _____ 576
F Final Hyd. Mud _____ 1248

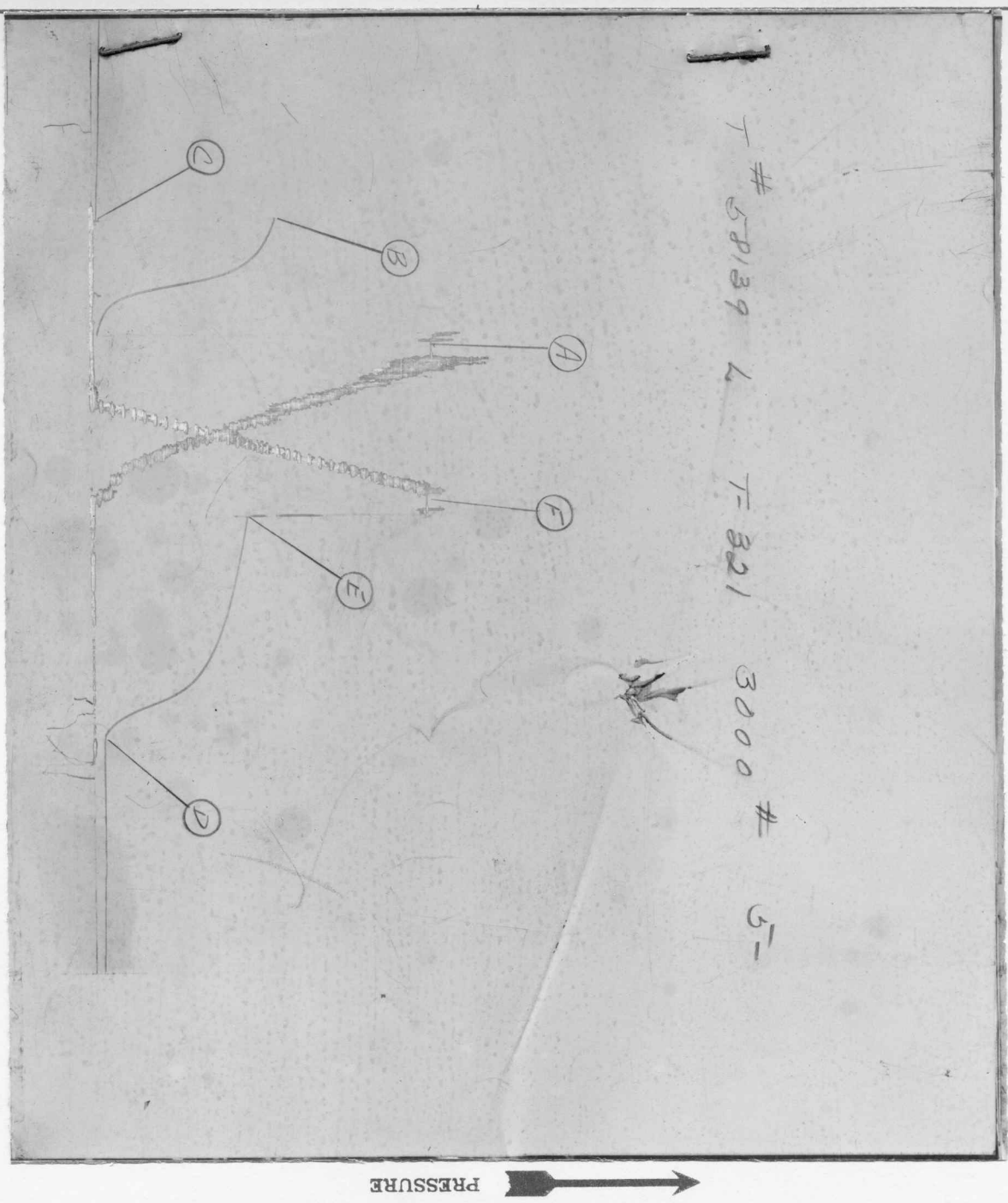
REMARKS

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 _____ 101 _____ °F.



For these purposes are carried out by using only a minimum of formation fluid to be produced. This initial shut-in pressure is the best method yet devised for recording the original, undisturbed reservoir pressure of a formation.

F-1, F-2, F-3, etc. final rya. mud pressures
Z—Special pressure points such as pumping pressure recorded for formation breakdown.

into the hole. Then the fluid cushion pressure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole, the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened the pressure of the

Date _____ Well _____
Formation Test No. 4 Casing Test No. _____ Test Interval _____
Company Cities Service Oil Company Address Box 632; Eldorado, Kansas
Tester Guy M. Knipe Test Approved By _____
SURFACE INFORMATION

Well Flowed: No Amount _____
Reversed Out: No Amount _____

Recovered: Free oil Amount 71
Mud cut oil Amount 62

Blow Weak blow for 3 minutes and died. By-passed mud, weak blow for 23 minutes and died.

Maximum Surface Pressure _____
Description (rate of flow) _____
Opened Tool: Opened tool to surface

Time Pressure Surface Choke
1:45 PM _____
2:15 PM _____
Remarks: _____

County DEVELOP State KANSAS
Test Ticket No. 58140 L
No. of DST Reports Requested 5
TOOL, HOLE & MUD DATA

Type Test Conventional
Formation Tested Arbuckle Elevation 1381 Ft.
All Depths Measured From Kelly Bushing

2289' of 4 1/2" F.H. Drill
Pipe, 3.8" I.D. _____

Circulating sub- _____
62' of 4 1/2" F.H. Drill
Pipe, 3.8" I.D. _____

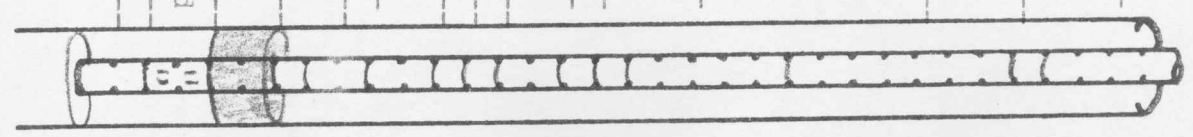
59' of 4 1/2" F.H. Drill
Collar, 2.5" I.D. _____

Cross over sub- _____
Disc Valve _____
5' of 4 1/2" F.H. Air
Chamber, 3.8" I.D. _____

Cross over sub- _____
Cross over sub- _____
3 1/2" Spout-in hydraulic
tool _____

6' Recorder Carrier _____
Cross over sub- _____
7 1/4" Bob Tail Packer
Set at 2440' _____

6' of 3 1/2" F.H. Perforated
Anchor _____
4' Recorder Carrier _____
Total Depth 2450 Ft.
Main Hole Size 8-3/4" Rat Hole Size _____
Casing Size _____ Liner Size _____
Bottom Choke Size 5/8" Mud Type Gel.
Mud Weight 9.9 Mud Viscosity 39



ing only a minimum of formation fluid to be produced. This initial shut-in pressure is the best method yet devised for recording the original, undisturbed reservoir pressure of a formation.

F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.

into the hole. Then the fluid cushion pressure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole, the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened the pressure of the

TIME DATA	
Initial Shut-in	— Hrs. 30 Mins.
Flow Period	2 Hrs. — Mins.
Final Shut-in	1 Hrs. — Mins.

PRESSURE READING (P.S.I.G.)	
Recorder No.	T-321
Capacity (P.S.I.G.)	3000
Location	2427'

A Initial Hyd. Mud.	1255
B Initial Shut-in	888
C Initial Flow	7
D Final Flow	36
E Final Shut-in	704
F Final Hyd. Mud	1237

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	

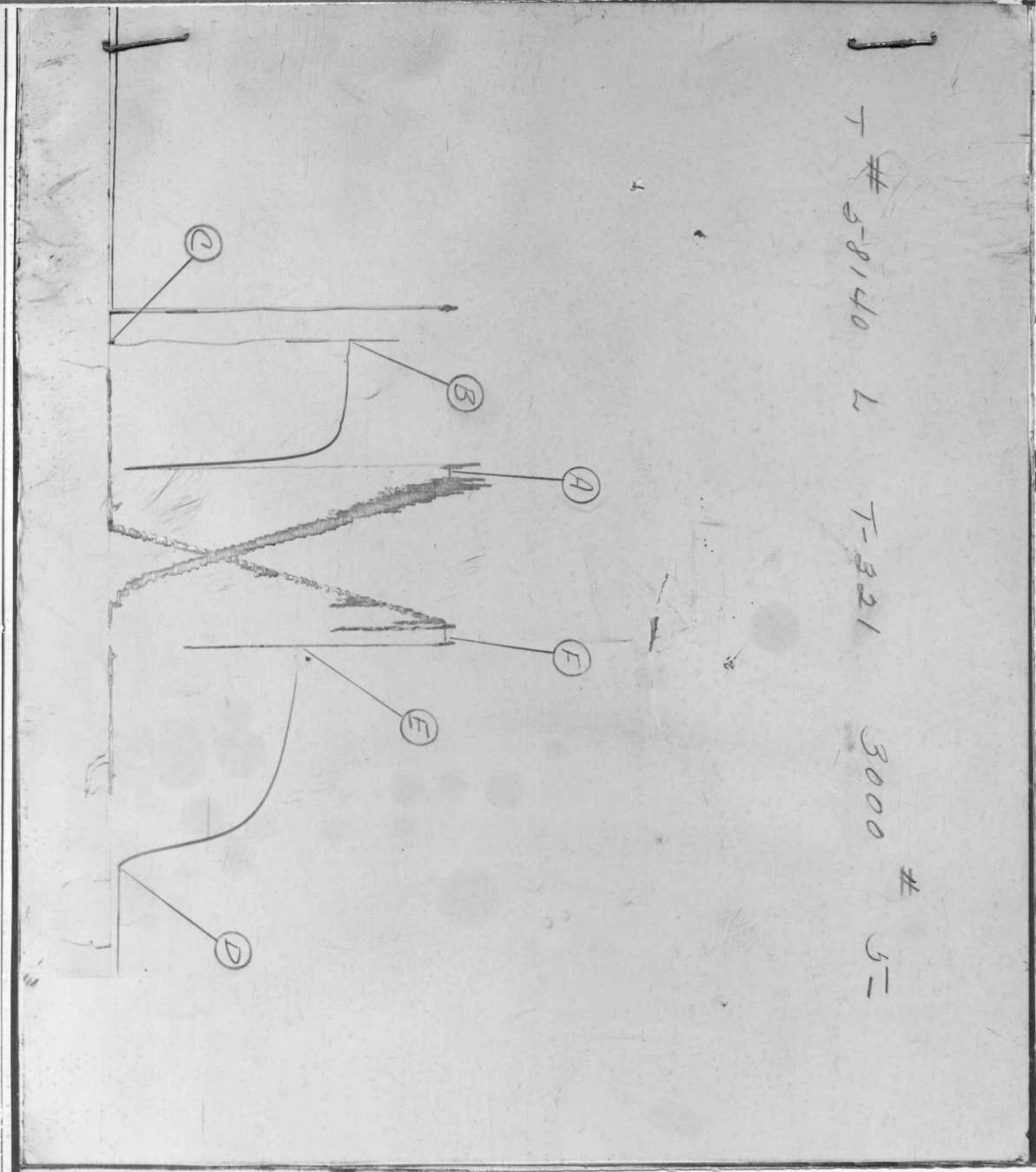
REMARKS

Well Temperature	99	° F.
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PRESSURE

TIME

J # 5-8140 L T-321 3000 # 5-



Date 5/27/51 Well 5 Field EL DORADO County DALLAS State TEXAS
Formation Test No. 5 Casing Test No. - Test Interval 2450' to 2465' Address Box 632, El Dorado, Kansas Test Ticket No. 58141 L
Company Cities Service Oil Company
Tester Guy M. Knipe Test Approved By Kent C. Dixon
SURFACE INFORMATION

Well Flowed: No Amount - Type Test Conventional
Formation Tested Arbuckle Elevation 1381 Ft.

All Depths Measured From kelly bushing.
2304' of 4 1/2" F.H. Drill
Pipe, 3.8" I. D.

Reversed Out: Salt water Amount 685'
Circulating Sub-----

Recovered: Free oil Amount 12'
Salt water 62'

Recovered below circulating sub:
Salt water 121'

Blow Strong throughout test.
Cross-over Sub-----
4 1/2" F.H. Disc Valve-----
5' of 4 1/2" F.H. Air Chamber
3.8" I.D.

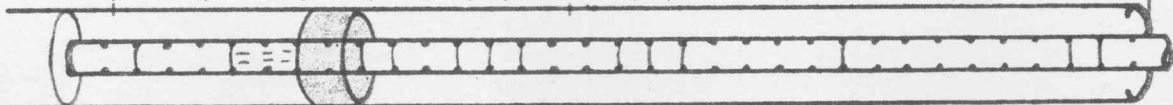
Maximum Surface Pressure - -
Description (rate of flow) - -
Cross-over Sub-----
3 1/2" Type C Hyd. Tool-----

Opened Tool: 12:46 AM
Opened tool to surface 1:16 AM
Cross-over Sub-----
7 1/4" Bob Tail Packer set
@ 2450'

5' of 3 1/2" FH Perf. Anchor-

6' Recorder Carrier-----

4' Recorder Carrier-----



Total Depth 2465 Ft.
Main Hole Size 8 3/4" Rat Hole Size -

Casing Size - Liner Size -
Bottom Choke Size 5/8" Mud Type Gel.

Mud Weight 10.1 Mud Viscosity 38
2 cP

TIME

TIME DATA

Initial Shut-in _____ Hrs. 30 Mins.
 Flow Period 2 Hrs. _____ Mins.
 Final Shut-in _____ Hrs. 1 Mins.

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

Recorder No. T-321
 Capacity (P.S.I.G.) 3000
 Location 2457'

A Initial Hyd. Mud. 1264
 B Initial Shut-in 865
 C Initial Flow 125
 D Final Flow 413
 E Final Shut-in 823
 F Final Hyd. Mud 1251

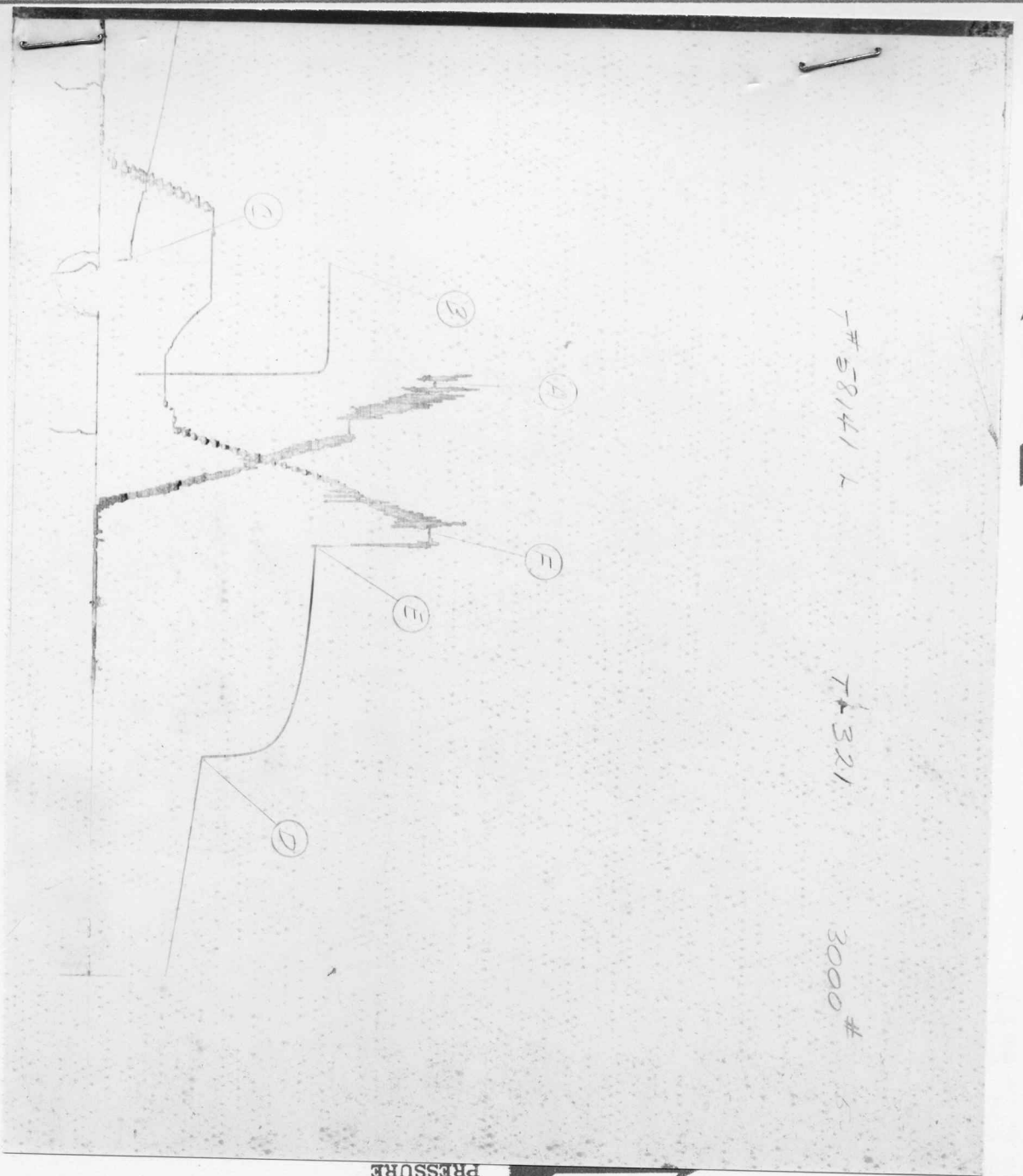
REMARKS

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 104 °F.



Form J-130

All these methods are carried out by using only a minimum of formation fluid to be produced. This initial shut-in pressure is the best method yet devised for recording the original, undisturbed reservoir pressure of a formation.

F-1, F-4, F-3, etc. final hyd. mud pressures
 Z—Special pressure points such as pumping pressure recorded for formation breakdown.

How the note, first the main cushion pressure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole, the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened the pressure of the cushion column or the flowing reservoir is