Date 10-31-59 Well Liebrandt #1 Field Wild Cat County Cheyenne State Kansas 36-5-42W

Formation Test No. 1 Casing Test No. - Test Interval 4495' to 4532' Test Ticket No. 55581 L

Company R. G. Lawton Address Box 620; Magnolia, Arkansas

Tester J. C. Nelson Test Approved By H. L. Pershall No. of DST Reports Requested 8-XXX XXX

SURFACE INFORMATION

Well Flowed: No — Amount

Reversed Out: No — Amount

Recovered:	Amount
Clean oil	655'
Muddy oil	80'
Drilling mud	20'

Blow Moderate to good throughout test.

Maximum Surface Pressure 0#

Description (rate of flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool:	7:08 AM	-	-

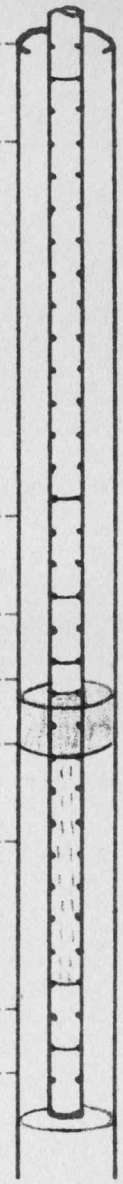
Remarks:

TOOL, HOLE & MUD DATA

Type Test Conventional

Formation Tested Lansing Elevation 3040.85 Ft.

All Depths Measured From derrick floor.



Total Depth 4532 Ft.

Main Hole Size 7 7/8" Rat Hole Size 6 1/8" x 52'

Casing Size - Liner Size -

Bottom Choke Size Open Mud Type Fresh Water

Mud Weight 10.1 Mud Viscosity 40

Air Chamber: Length - - Ft. - - I.D

TIME

For more copies of this report on your Drill Stem Test refer to this Test Ticket number: 55581 L.

PRESSURE

TIME DATA		
Initial Shut-in	- Hrs.	- Mins.
Flow Period	1 Hrs.	- Mins.
Final Shut-in	- Hrs.	20 Mins.

Well Temperature	104 °F.

PRESSURE READING (P.S.I.G.)	
Recorder No.	L-270
Capacity (P.S.I.G.)	4500
Location	4529'
A Initial Hyd. Mud.	2400
B Initial Shut-in	- -
C Initial Flow	36
D Final Flow	258
E Final Shut-in	*1275
F Final Hyd. Mud	2388
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	

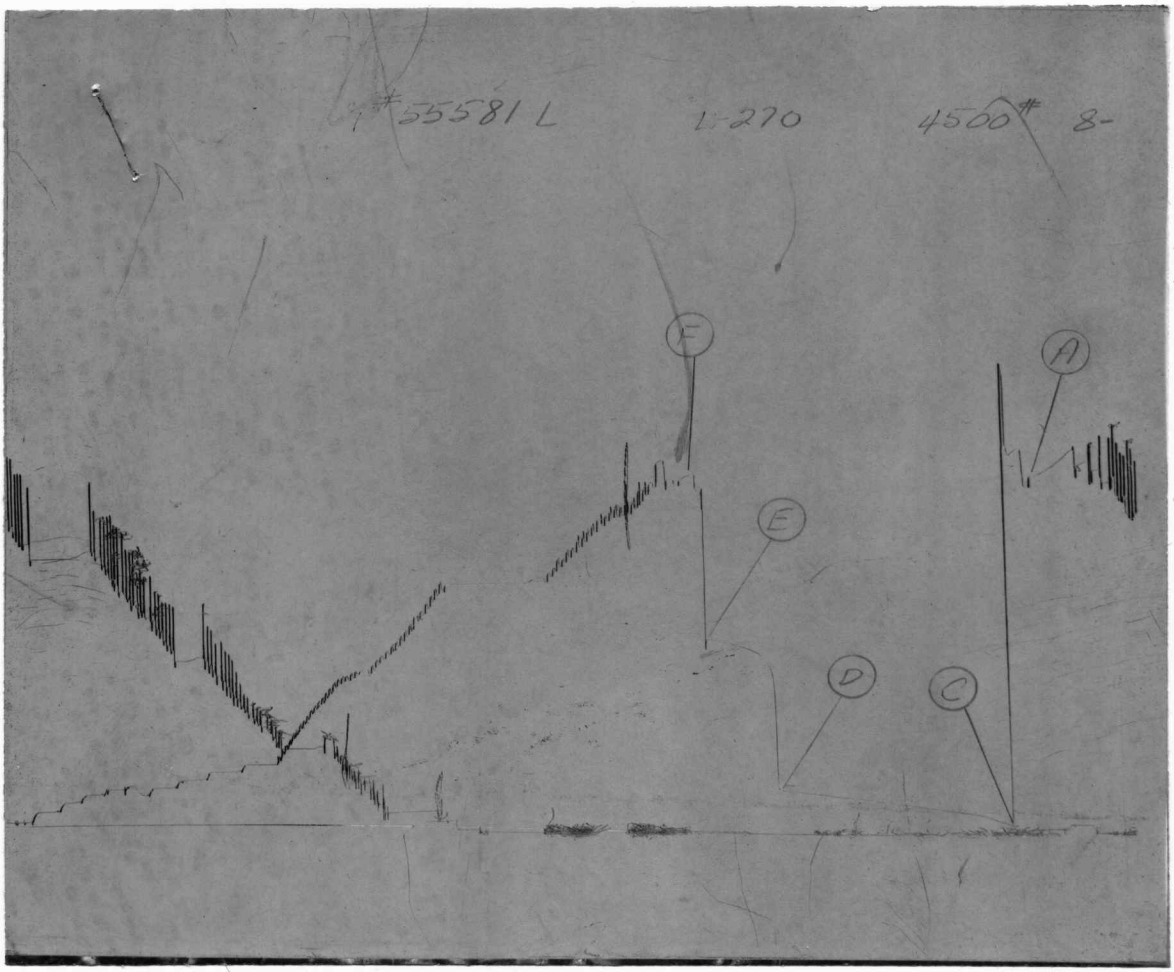
*Shut in pressure did not reach static reservoir pressure.

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.

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 cushion column or the flowing pressure of the formation, (which ever is greater), is


555581 L
I-270
4500#
8-
F
A
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Date 11-7-59 Well Leibbrandt #1 Field Wild Cat County Cheyenne State Kansas

Formation Test No. 3 Casing Test No. - Test Interval 5102' to 5240' Test Ticket No. 55584 L

Company R. G. Lawton Address Box 620; Magnolia, Arkansas

Tester J. C. Nelson Test Approved By R. R. Brooks No. of DST Reports Requested 8xxxxxx

SURFACE INFORMATION

Well Flowed: No — Amount

Reversed Out: Salt water — Amount 2520'

Recovered: - — Amount

Blow: Strong blow throughout test.

Maximum Surface Pressure: 0#

Description (rate of flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool:	3:35 PM		

Remarks:

TOOL, HOLE & MUD DATA

Type Test: Conventional

Formation Tested: Morrow Elevation: 3640.85 Ft.

All Depths Measured From: Derrick Floor

4851' of 4½" F.H. Drill Pipe, 3.8" I.D.----------

Circulating sub----------

227' of 6" H-90 Drill Collar, 2.5" I.D.--------

3½" Shut-in hydraulic tool----------

3½" H.S.-1 Jar----------

4½" Bowen safety joint--

6-5/8" Bob Tail Packer Set at 5102'----------

20' of 4½" F.H. Perforated Anchor, 2.5" I.D.---------

90' of 4½" F.H. Drill Pipe, 3.8" I.D.----------

17' of 4½" F.H. Perforated Anchor, 2.5" I.D.---------

6' Recorder Carrier------

5' Recorder Carrier------

Total Depth: 5240 Ft.

Main Hole Size: 7-7/8" Rat Hole Size: -

Casing Size: - Liner Size: -

Bottom Choke Size: Open Mud Type: Fresh Water

Mud Weight: 9.8 Mud Viscosity: 54

Air Chamber: Length: - Ft. I.D.

	Cushion Type	Amount	Pressure
	--		

TIME

For more copies of this report on your Drill Stem Test refer to this Test Ticket number: 55584 L.

PRESSURE

TIME DATA		
Initial Shut-in	- Hrs.	- Mins.
Flow Period	- Hrs.	30 Mins.
Final Shut-in	- Hrs.	15 Mins.

Well Temperature	152 ° F.

PRESSURE READING (P.S.I.G.)	
Recorder No.	L-270
Capacity (P.S.I.G.)	4500
Location	5237'
A Initial Hyd. Mud.	2795
B Initial Shut-in	-
C Initial Flow	641
D Final Flow	1135
E Final Shut-in	1197 *
F Final Hyd. Mud	2820
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	

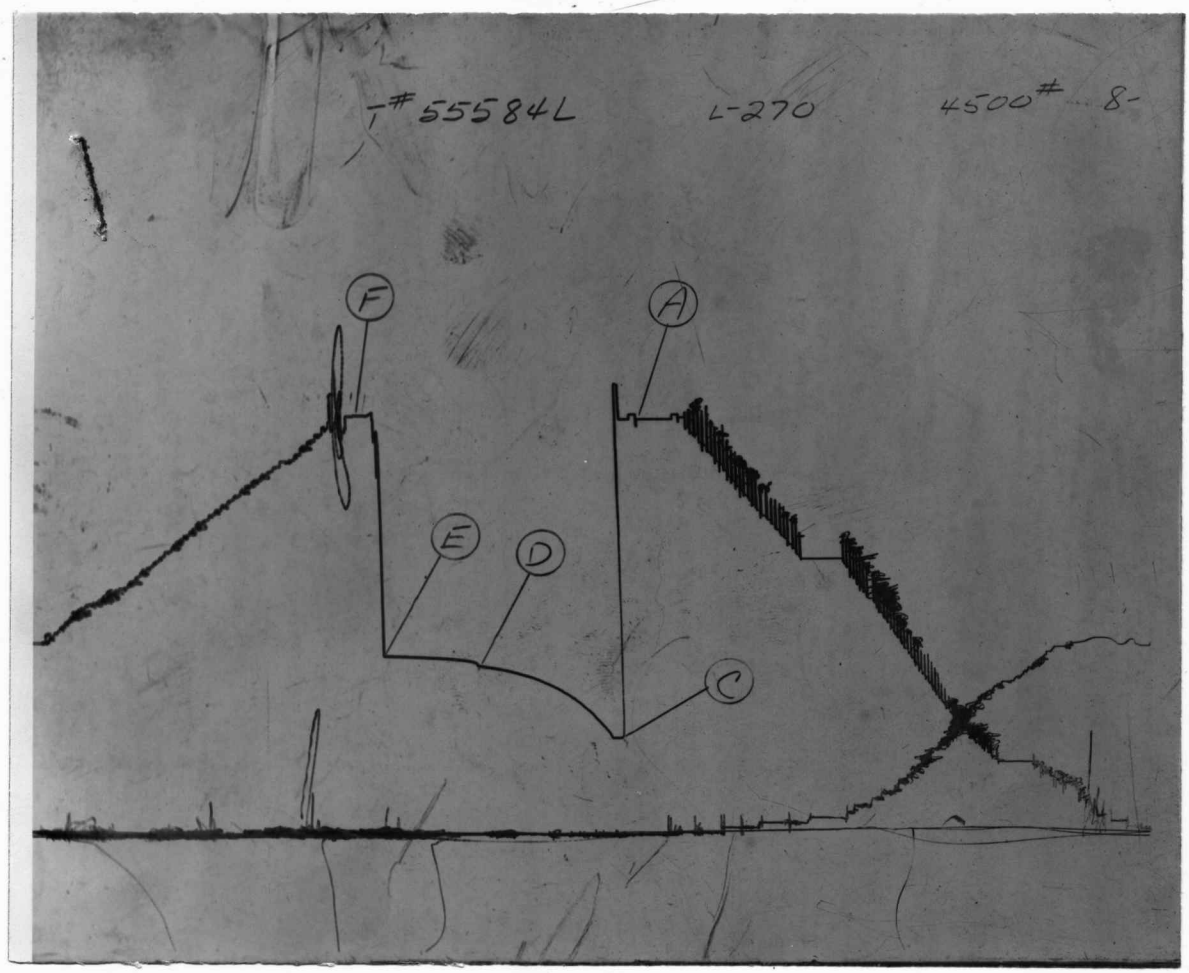
*Shut in pressure did not reach static reservoir pressure.

Form J-130

All these methods are carried out by ... 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.

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

... with ... 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 pressure of the formation, (which ever is greater), is recorded.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