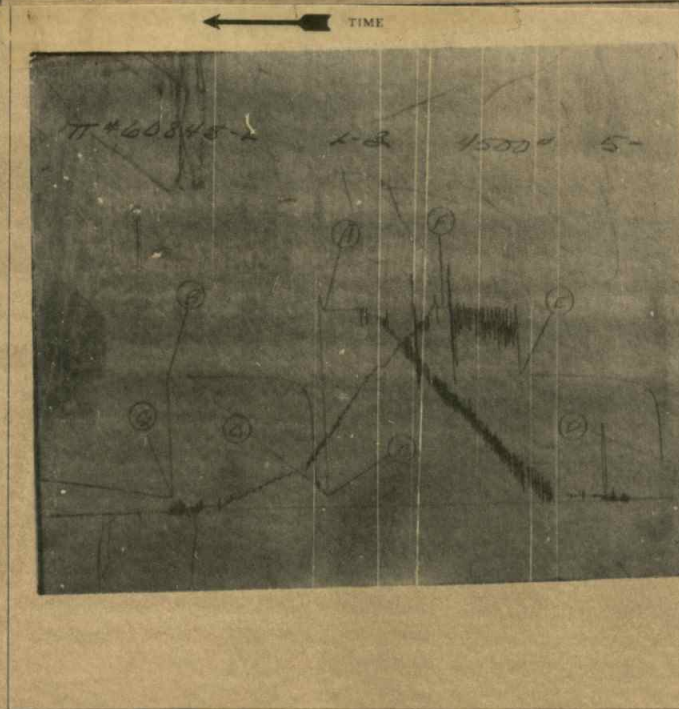


Date: 2-25-61 Well: Welch #1-D Field: Perry Ranch County: Barber State: OK
 Formation Test No. 1 Casing Test No. - Test Interval: 2062' to 4125' Test Ticket No. 60837 L 60846
 Company: Sinclair Oil and Gas Company Address: P.O. Box 521, Tulsa, Oklahoma A.I.N.: D.W. Bennett
 Tester: Harvey Moore Test Approved By: Virgil L. Johnson No. of DST Reports Requested: 5 X1

SURFACE INFORMATION			
Well Flowed:	Amount		
No			
Reversed Out:	Amount		
No			
Recovered:	Amount		
Muddy salt water	780'		
Blow:	Good throughout test.		
Maximum Surface Pressure:		Time	Pressure (P.S.I.G.)
Description (rate of flow)			Surface Choke
Opened Tool:		5:08 AM	5/8"
Closed tool for initial shut-in		5:13 AM	"
Re-opened tool		6:13 AM	"

TOOL HOLE & MUD DATA	
Type Test:	Conventional
Formation Tested:	Douglas Elevation 1861 Ft.
All Depths Measured From:	Ground Level
3908' of 4 1/2" FH Drill Pipe, 3.80" ID	
Circulating Sub	
120' of 4 1/2" FH Drill Pipe, 3.80" ID	
3 1/2" 4-Stage Shut-in Tool	
3 1/2" C Hydraulic Tool	
3 1/2" HS-1 Jars	
4 1/2" Homco Safety Joint	
6 5/8" Bob Tail Packer set at 4064'	
9' of 3 1/2" Perf. Anchor, 4 1/2" OD and 2 1/2" ID	
1', 3 1/2" Cross-Over Sub, 4 1/2" OD and 2.25" ID	
30' of 4 1/2" FH Drill Pipe, 3.80" ID	
1', 3 1/2" Cross-Over Sub, 4 1/2" OD and 2.25" ID	
10' of 3 1/2" FH Perf. Anchor, 4 1/2" OD and 2 1/2" ID	
6' 1/2" Recorder Carrier, 4 7/8" OD and 4" ID	
4' 1/2" Recorder Carrier, 4 7/8" OD and 4" ID	
4' 7/8" OD and 4" ID	
Total Depth: 4125 Ft.	
Main Hole Size:	7 7/8" Int Hole Size
Casing Size:	3/4" Liner Size
Bottom Choke Size:	3/4" Mud Type: Starch
Mud Weight:	10.2 Mud Viscosity: 39
Air Chamber:	Length: - Ft. I.D.
Cushion Type:	Amount: - Pressure: -



TIME DATA	
Initial Shut-in	1 Hrs. - Mins.
Flow Period	1 Hrs. 05 Mins.
Final Shut-in	1 Hrs. - Mins.
Well Temperature	114° F.
PRESSURE READING (P.S.I.G.)	
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	
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.

JOHNSON TESTERS, INC.
Pressure Data

Date 2-25-61 Recorder No. 1-3 Clock No. 764 Clock Travel 0.02203 Capacity 4500 inches per min. 117 F.

Test Ticket No. 60845 L Location 41211

Point	Pressure	Time Given	Time Completed
A Initial Hydraulic Mud	2320		
B Initial Shut-in	1553		
C Initial Flow	106		
D Final Flow	420		
E Final Shut-in	1483		
F Final Hydraulic Mud	2315		

Remarks:

Point	Minutes	Pressure	Point	Minutes	Pressure
C-1	0	252	D	0	420
	5	1492		5	1258
	10	1487		10	1343
	15	1515		15	1381
	20	1531		20	1405
	25	1540		25	1424
	30	1547		30	1457
	35	1550		35	1448
	40	1551		40	1457
	45	1552		45	1464
	50	1552		50	1469
	55	1553		55	1475
	60	1553		59	1481
B	61	1553			

INITIAL SHUT-IN
Breakdown: 12 increments of 5 mins. and a final increment of 1. min.

FLUX PERIOD
Breakdown: 13 increments of 5 mins. and a final increment of 1. min.

FINAL SHUT-IN
Breakdown: 11 increments of 5 mins. and a final increment of 4. min.

Date 2-25-61 Well Welch #1-D Field Perry Ranch County Barber State Kansas

Formation Test No. 1 Casing Test No. - Test Interval 4064' to 4125' Test Ticket No. 60845 L

Company Sinclair Oil and Gas Company Address P.O. Box 521; Tulsa, Oklahoma 6111 D.W. Bennett

Tester Harvey Moore Test Approved By Virgil L. Johnson No. of DST Reports Requested 5 XX

SURFACE INFORMATION

Well Flowed: No Amount _____ Type Test Conventional


Formation Tested Douglas Elevation 1861 Ft.

All Depths Measured From Ground Level

3906' of 4 1/2" FH Drill
Pipe, 3.80" ID

Circulating Sub _____

120' of 4 1/2" FH Drill
Pipe, 3.80" ID



Reversed Out: No Amount _____

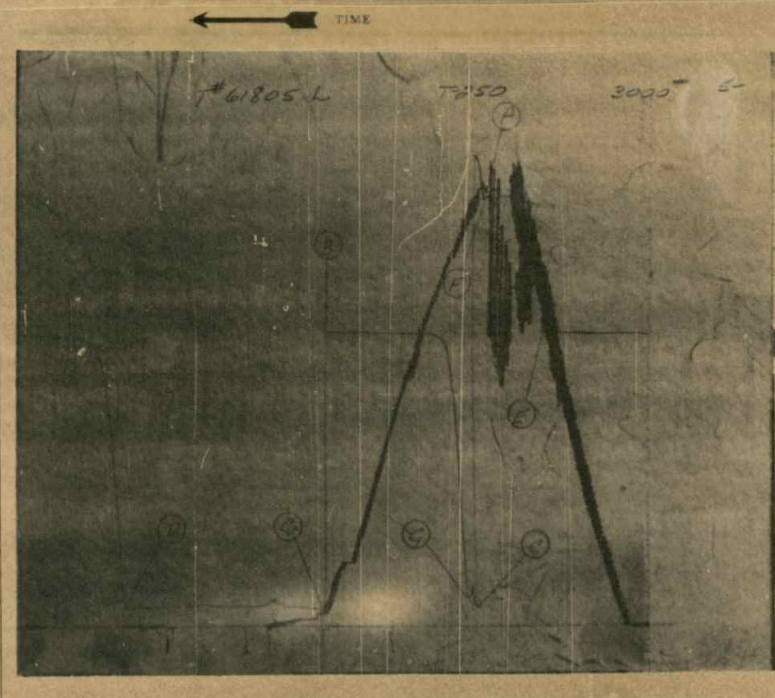
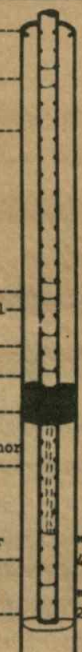
Date 3-3-61 Well Welch #D-1 Field Perry Ranch County Barber State Kansas
 Formation Test No. 2 Casing Test No. - Test Interval 4714' to 4755' Test Ticket No. 61805 L
 Company Sinclair Oil and Gas Company Address P. O. Box 521, Tulsa, Okla. AITN: D. W. Bennett
 Tester Guy M. Knipe Test Approved By Virgil L. Johnson No. of DST Reports Requested 5 XX

SURFACE INFORMATION **TOOL HOLE & MUD DATA**

Well Flowed: <u>Gas</u>	Amount	Type Test <u>Conventional</u>
Reversed Out: <u>No</u>	Amount	Formation Tested <u>Mississippi</u> Elevation <u>1861 DF</u>
Recovered: <u>Gas cut drilling mud</u>	Amount <u>118'</u>	All Depths Measured From <u>Kelly Bushing</u>
Blow <u>Strong throughout test.</u>		<u>4559'</u> of <u>4 1/2"</u> FH Drill Pipe, <u>3.8"</u> ID
Maximum Surface Pressure Description (rate of flow)	Time	Pressure (P.S.I.G.)
Opened Tool:	<u>9:32 AM</u>	In inches of water <u>3 1/4"</u>
<u>Closed tool for initial shut-in</u>	<u>9:37 AM</u>	"
<u>Re-opened tool</u>	<u>10:37 AM</u>	"
<u>Gas 119 MCF/Day</u>	<u>10:42 AM</u>	<u>.8</u>
<u>Gas 146 MCF/Day</u>	<u>10:52 AM</u>	<u>1.2</u>
<u>Gas 158 MCF/Day</u>	<u>11:02 AM</u>	<u>1.4</u>
<u>Gas 169 MCF/Day</u>	<u>11:12 AM</u>	<u>1.6</u>
<u>Gas 169 MCF/Day</u>	<u>11:22 AM</u>	<u>1.6</u>
<u>Gas 171 MCF/Day</u>	<u>11:32 AM</u>	<u>1.8</u>
<u>Gas 189 MCF/Day</u>	<u>11:42 AM</u>	<u>2</u>
<u>Gas 198 MCF/Day</u>	<u>11:52 AM</u>	<u>2.2</u>
<u>Gas 198 MCF/Day</u>	<u>12:02 PM</u>	<u>2.2</u>

Remarks: Well Locations 18-32-15

Total Depth 4755 Ft.
 Main Hole Size 7 7/8" Rat Hole Size -
 Casing Size - Liner Size -
 Bottom Choke Size 3/4" Mud Type Starch
 Mud Weight 9.9 Mud Viscosity 45
 Air Chamber: Length - Ft. - I.D. -
 Cushion Type - Amount - Pressure -



TIME DATA

Initial Shut-in 1 Hrs. - Mins.
 Flow Period 1 Hrs. 35 Mins.
 Final Shut-in 1 Hrs. 30 Mins.

Well Temperature 120 °F.

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

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 _____

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.

JOHNSON TESTERS, INC.
Pressure Data

Date: 3-3-61 Well: Welch #D-1 Field: Perry Ranch County: Barber State: Kansas
 Recorder No. 1-250 Casing Test No. - Test Interval: 4714' to 4755' Test Ticket No. 61805 L
 Check In. 1036 Company: Sinclair Oil and Gas Company Address: P. O. Box 521, Tulsa, Okla. ATTN: D. W. Bennett
 Tester: Guy M. Koipe Test Approved By: Virgil L. Johnson No. of DST Reports Requested: 5 **XX**

Capacity: 3000 lbs per min. Well Temperature: 210 °F

Pressure	Time	Time Completed
2514		
1719		
121		
129		
1711		
2490		

These Given: 9:32 AM. 61 Min. 92 Min. 92 Min.

Opened Tool Initial Shut-in Flow Final Shut-in

PRESSURE BREAKDOWN

INITIAL SHUT-IN
Breakdown: 12 increments of 5 min. and a final increment of 1 min.

Point	Minutes	Pressure
C-1	0	178
	5	1232
	10	1660
	15	1704
	20	1709
	25	1713
	30	1713
	35	1713
	40	1714
	45	1718
	50	1719
	55	1719
	60	1719
B	61	1719

FLOW PERIOD
Breakdown: 9 increments of 10 min. and a final increment of 2 min.

Point	Minutes	Pressure
C-1	0	121
	4	178
S-2		117
	10	122
	20	130
	30	143
	40	130
	50	132
	60	144
	70	131
	80	128
	90	129
D	92	129

FINAL SHUT-IN
Breakdown: 9 increments of 10 min. and a final increment of 2 min.

Point	Minutes	Pressure
D	0	129
	10	1554
	20	1675
	30	1691
	40	1698
	50	1705
	60	1706
	70	1711
	80	1711
	90	1711
	92	1711

Well Flowed: Gas Amount _____

Reversed Out: No Amount _____

Recovered: Gas cut drilling mud Amount 118'

Type Test: Conventional
 Formation Tested: Mississippi Elevation: 1861 DF.
 All Depths Measured From: Kelly Bushing
 4599' of 4 1/2" FH Drill
 Pipe, 3.8" ID

