WESTERN TESTERS

Customer Order #4A102

Home Office: Great Bend, Kansas

Elev. 1938 G.L.

P. O. Box 793 GLadstone 3-7903

Company Continental Oil Company Lease & Well No. Thompson #2 Tkt. #1671

Date 8-28-62 Sec. 27 Twp. 28 Range 13 County Pratt State Kansas

Test Approved by Porter O'Neal Western Representative Guy M. Knipe

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3880' to 3910' Total Depth 3910'

Size Main Hole 7 7/8" Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No.

Packer Depth 3877 Ft. Size 6 3/4" Packer Depth 3880 Ft. Size 6 3/4"

Straddle ___ Yes X No Conv. ___ B.T. ___ Damaged ___ Yes ___ No

Packer Depth ___ Ft. Size ___

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 30 Ft. Size 5½" O.D.

RECORDERS Depth 3901 Ft. Clock No. 6806 Depth 3904 Ft. Clock No. -

Top Make Amerada Cap. 4200# No. 1558 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 4 ~~Inside~~ Outside

Below Straddle: Depth - Clock No. - Inside Outside Depth - Ft. Clock No. - Inside Outside

Top Make ___ Cap. ___ No. ___ Inside Outside Bottom Make ___ Cap. ___ No. ___ Inside Outside

Time Set Packer 4:45 P M

Tool Open I.F.P. From 4:48P M. to 4:53P M. - Hr. 5 Min. From (B) 274 P.S.I. To (C) 599 P.S.I.

Tool Closed I.C.I.P. From 4:53P M. to 5:23P M. - Hr. 30 Min. (D) 1455 P.S.I.

Tool Open F.F.P. From 5:23P M. to 5:53P M. - Hr. 30 Min From (E) 641 P.S.I. To (F) 735 P.S.I.

Tool Closed F.C.I.P. From 5:53P M. to 6:23P M. - Hr. 30 Min. (G) 1372 P.S.I.

Initial Hydrostatic Pressure (A) 2046 P.S.I. Final Hydrostatic Pressure (H) 2035 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.			
Spring Gauge Impact		4 lb.	5 M.	1,450,000 MCF
Behind 3/4" Chock		200 lb.	10 M.	3,000,000 "
" " "		225 lb.	15 M.	3,025,000 "

BLOW Strong - Gas in 3 Mins. Stabilized @ 3,025,000 Bottom Choke Size 3/4 in.

Did Well Flow X Yes ___ No. Recovery Total Ft. 390 - Oil - Gas - Water

390' Gassy Water Mud

Reversed Out ___ Yes X No Mud Type Starch Viscosity 39 Weight 9.8 Maximum Temp. 114 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 4½" O.D. Make Bowen Ser. No. 2638

Type Circ. Sub. Plug Did Tool Plug? No Where? ___ Did Packer Hold? Yes

Remarks

57' Tool
300' D.C. 2¼" (Bore I.D.)
3553' D.P. with 3.8" I.D.

Whelan Printers

WESTERN TESTING CO., INC.
Pressure Data

Date 8-28-62 Test Ticket No. 1671

Recorder No. 1558 Capacity 4200# Location 3191 Ft.

Clock No. 6806 Elevation 1938' G.L. Well Temperature 114 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2059 P.S.I.	Opened Tool	4:48 P	M	4:48 PM	
B	First Initial Flow Pressure	295 P.S.I.	First Flow Pressure	5	Mins.	6	Mins.
C	First Final Flow Pressure	629 P.S.I.	Initial Closed-in Pressure	30	Mins.	33	Mins.
D	Initial Closed-in Pressure	1460 P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	650 P.S.I.	Final Closed-in Pressure	30	Mins.	33	Mins.
F	Second Final Flow Pressure	729 P.S.I.					
G	Final Closed-in Pressure	1389 P.S.I.					
H	Final Hydrostatic Mud	2044 P.S.I.					

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 6 mins. and a
final inc. of - Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of - Min.

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of - Min.

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of - Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	295	0	629	0	650	0	729
P 2 6	629	3	1215	5	658	3	1334
P 3		6	1441	10	745	6	1351
P 4		9	1453	15	781	9	1357
P 5		12	1453	20	776	12	1364
P 6		15	1456	25	754	15	1368
P 7		18	1456	30	729	18	1372
P 8		21	1460			21	1378
P 9		24	1460			24	1382
P10		27	1460			27	1382
P11		30	1460			30	1389
P12		33	1460			33	1389
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2046 PSI
(B)	First Initial Flow Pressure	274 PSI
(C)	First Final Flow Pressure	599 PSI
(D)	Initial Closed-in Pressure	1455 PSI
(E)	Second Initial Flow Pressure	641 PSI
(F)	Second Final Flow Pressure	735 PSI
(G)	Final Closed-in Pressure	1372 PSI
(H)	Final Hydrostatic Mud	2035 PSI

Company Continental Oil Company Lease and Well No. Thompson #2 Sec. 27 Twp. 28 Rge. 43 Test No. 1 Date 8-29-64

WESTERN TESTERS

Customer Order #4A103

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Elev. 1938'G.L.

Company Continental Oil Co. Lease & Well No. Thompson #2 Tkt. #1674

Date 9-1-62 Sec. 27 Twp. 28 Range 13 County Pratt State Kansas

Test Approved by Porter O'Neal Western Representative Guy M. Knipe

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4388' to 4429' Total Depth 4429'

Size Main Hole 7 7/8" Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No.

Packer Depth 4385 Ft. Size 6 3/4" Packer Depth 4388 Ft. Size 6 3/4"

Straddle ___ Yes X No Conv. ___ B.T. ___ Damaged ___ Yes ___ No

Packer Depth ___ Ft. Size ___

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 41 Ft. Size 5½" O.D.

RECORDERS Depth 4420 Ft. Clock No. 6806 Depth 4423 Ft. Clock No. -

Top Make Amerada Cap. 4200# No. 1558 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 4 - Inside Outside

Below Straddle: Depth ___ Clock No. ___ Inside Outside Depth ___ Ft. Clock No. ___ Inside Outside

Top Make ___ Cap. ___ No. ___ Inside Outside Bottom Make ___ Cap. ___ No. ___ Inside Outside

Time Set Packer 7:56 A M

Tool Open I.F.P. From 7:56A M. to 8:03A M. - Hr. 5 Min. From (B) - P.S.I. To (C) - P.S.I.

Tool Closed I.C.I.P. From 8:03A M. to 8:33A M. - Hr. 30 Min. (D) 1445 P.S.I.

Tool Open F.F.P. From 8:33A M. to 9:33A M. 1 Hr. - Min From (E) 985 P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From 9:33A M. to 10:23A M. - Hr. 50 Min. (G) 1445 P.S.I.

Initial Hydrostatic Pressure (A) 2417 P.S.I. Final Hydrostatic Pressure (H) 2290 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Strong, gas in 8 Mins. - Too small to gauge Bottom Choke Size 3/4 in.

Did Well Flow X Yes ___ No. Recovery Total Ft. 4429 - Oil - Gas - Water

4129' Oil - 300' Mud cut oil Mud

Reversed Out ___ Yes X No Mud Type Starch Viscosity 37 Weight 9.5 Maximum Temp. 127 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 4½" O.D. Make Bowen Ser. No. 2638

Type Circ. Sub. Plug Did Tool Plug? No Where? ___ Did Packer Hold? Yes

Remarks

69' Tool
300' D.C. - 2¼" I.D.
4060' D.P. - 3.8" I.D.

Flow line plugged going to separator causing false F.F.P.

Whelan Printers

WESTERN TESTING CO., INC.
Pressure Data

Date 9-1-62 Test Ticket No. 1674

Recorder No. 1558 Capacity 4200# Location 4420 Ft.

Clock No. 6806 Elevation 1938' GL Well Temperature 127 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2299 P.S.I.	Opened Tool	7:58 A M		7:58 AM	
B	First Initial Flow Pressure	904 P.S.I.	First Flow Pressure	5	Mins.	5	Mins.
C	First Final Flow Pressure	904 P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	1452 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	983 P.S.I.	Final Closed-in Pressure	50	Mins.	45	Mins.
F	Second Final Flow Pressure	1456 P.S.I.					
G	Final Closed-in Pressure	1456 P.S.I.					
H	Final Hydrostatic Mud	2282 P.S.I.					

PRESSURE BREAKDOWN

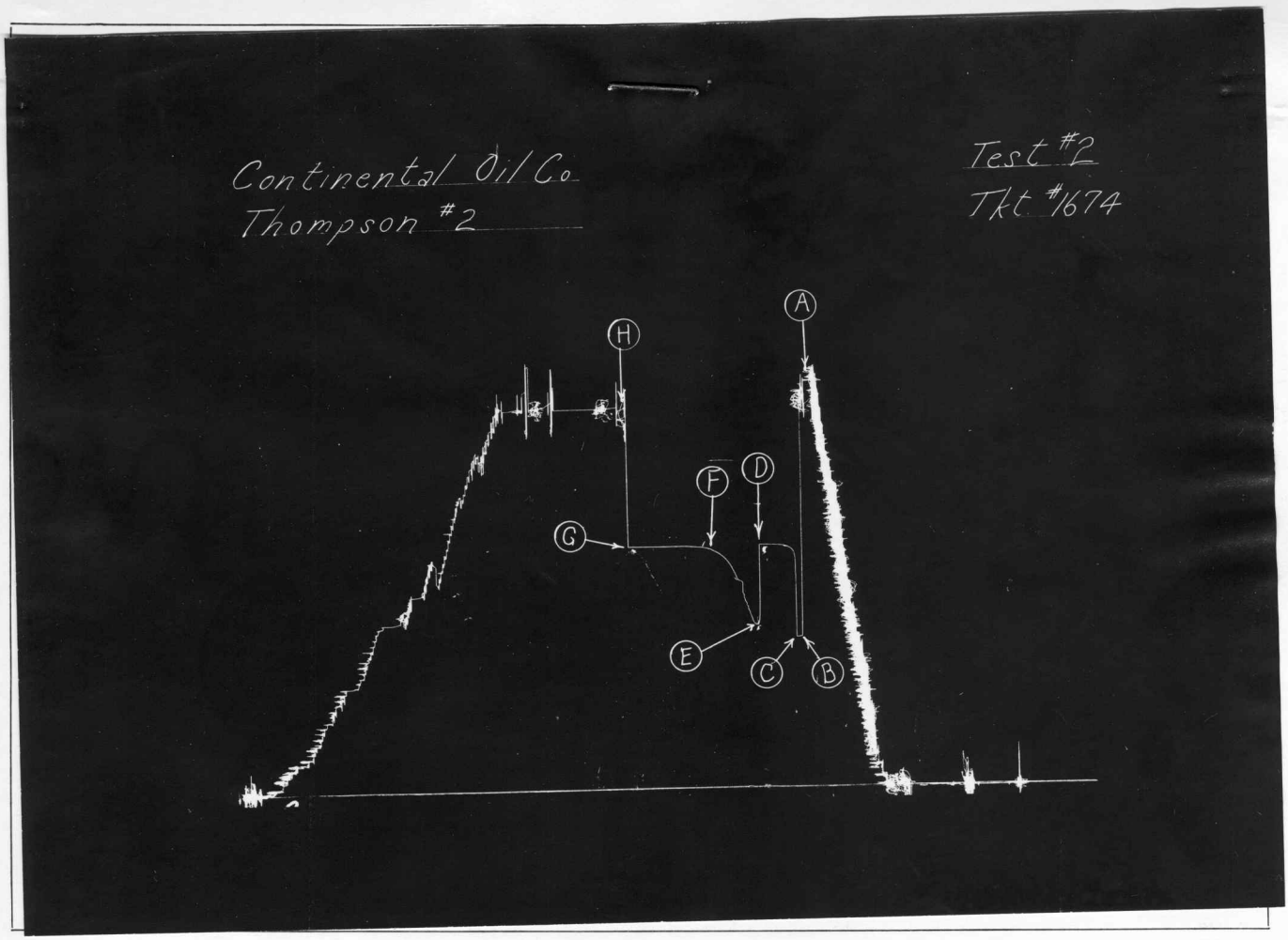
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of - Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of - Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of - Min.

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of - Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	904	0	904	0	983	0	1456
P 2 5	904	3	1408	5	1013	3	1456
P 3		6	1434	10	1115	6	1456
P 4		9	1440	15	1245	9	1456
P 5		12	1446	20	1295	12	1456
P 6		15	1450	25	1355	15	1456
P 7		18	1450	30	1400	18	1456
P 8		21	1451	35	1418	21	1456
P 9		24	1452	40	1437	24	1456
P10		27	1452	45	1445	27	1456
P11		30	1452	50	1452	30	1456
P12				55	1454	33	1456
P13				60	1456	36	1456
P14						39	1456
P15						42	1456
P16						45	1456
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2417 PSI
(B)	First Initial Flow Pressure	- PSI
(C)	First Final Flow Pressure	- PSI
(D)	Initial Closed-in Pressure	1885 PSI
(E)	Second Initial Flow Pressure	983 PSI
(F)	Second Final Flow Pressure	- PSI
(G)	Final Closed-in Pressure	1445 PSI
(H)	Final Hydrostatic Mud	2290 PSI

Company Continental Oil Company Lease and Well No. Thompson #2 Sec. 27 Twp. 23 Rge. 13 Test No. 2 Date 9-1-62

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 GLadstone 3-7903

Customer Order No. 4A105
Elev. 1938' G.L.

Company Continental Oil Co. Lease & Well No. Thompson #2 Tkt. #1675

Date 9-3-62 Sec. 27 Twp. 28 Range 13 County Pratt State Kansas

Test Approved by Porter O'Neal Western Representative Guy M. Knipe

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4500' to 4516' Total Depth 4551'

Size Main Hole 7 7/8" Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged X Yes - No.

Packer Depth 4500 Ft. Size 6 3/4" Packer Depth 4516 Ft. Size 6 3/4"

Straddle X Yes No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 16 Ft. Size 5½" O.D.

RECORDERS Depth 4508 Ft. Clock No. 6806 Depth 4511 Ft. Clock No. -

Top Make Amerada Cap. 4200# No. 1558 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 4 ~~Inside~~ Outside

Below Straddle: Depth 4545 Clock No. - ~~Inside~~ Outside Depth 4546 Ft. Clock No. - ~~Inside~~ Outside

Top Make Western Cap. 4000# No. 59 ~~Inside~~ Outside Bottom Make Western Cap. 4000# No. 60 ~~Inside~~ Outside

Time Set Packer 4:52 A M

Tool Open I.F.P. From 4:53A M. to 4:58A M. - Hr. 25 Min. From (B) 21 P.S.I. To (C) 27 P.S.I.

Tool Closed I.C.I.P. From 4:58A M. to 5:47A M. - Hr. 49 Min. (D) 1487 P.S.I.

Tool Open F.F.P. From 5:47A M. to 6:47A M. 1 Hr. - Min From (E) 52 P.S.I. To (F) 158 P.S.I.

Tool Closed F.C.I.P. From 6:47A M. to 7:17A M. - Hr. 30 Min. (G) 1455 P.S.I.

Initial Hydrostatic Pressure (A) 2311 P.S.I. Final Hydrostatic Pressure (H) 2300 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak, increased to 3" blow Bottom Choke Size 3/4 in.

Did Well Flow Yes X No. Recovery Total Ft. 335 - Oil - Gas 129' Water

Muddy Salt Water Mud

Reversed Out Yes X No Mud Type Starch Viscosity 46 Weight 9.5 Maximum Temp. - °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 4½" O.D. Make Bowen Ser. No. 2638

Type Circ. Sub. ~~CC~~ Plug Did Tool Plug? No Where? Did Packer Hold? Yes

Remarks

73' Tool
300' D.C. - 2¼" I.D.
4177' D.P. - 3.8" I.D.

Whelan Printers

WESTERN TESTING CO., INC.
Pressure Data

Date 9-3-62 Test Ticket No. 1675

Recorder No. 1558 Capacity 4200# Location 4508 Ft.

Clock No. 6800 Elevation 1938' GL Well Temperature 129 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2322 P.S.I.		Opened Tool	4:53A M	4:53 AM
B	First Initial Flow Pressure	19 P.S.I.		First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	32 P.S.I.		Initial Closed-in Pressure	49 Mins.	53 Mins.
D	Initial Closed-in Pressure	1494 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	63 P.S.I.		Final Closed-in Pressure	30 Mins.	33 Mins.
F	Second Final Flow Pressure	162 P.S.I.				
G	Final Closed-in Pressure	1469 P.S.I.				
H	Final Hydrostatic Mud	2301 P.S.I.				

PRESSURE BREAKDOWN

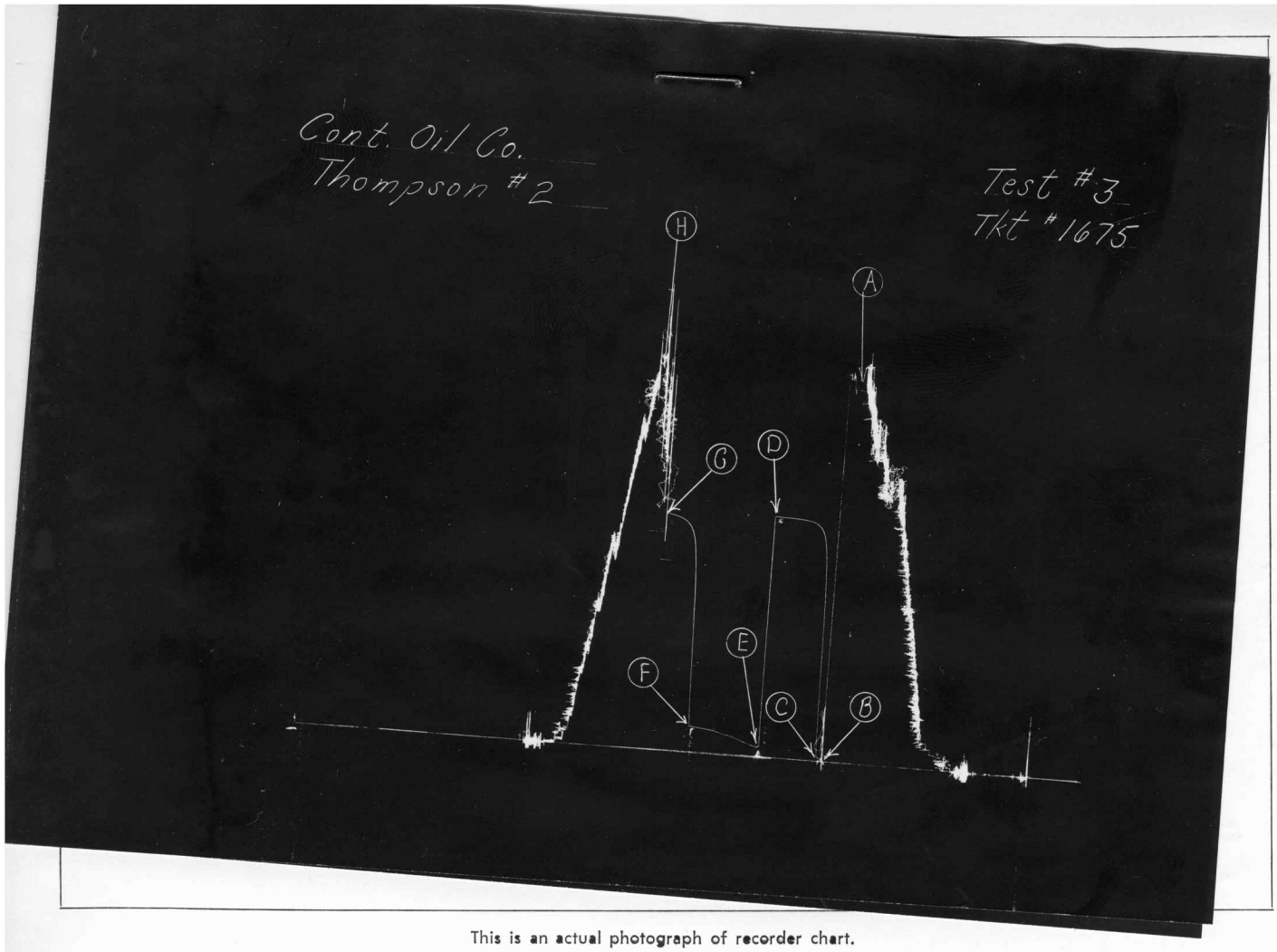
First Flow Press.
Breakdown: 1 Inc. of 5 mins. and a final inc. of – Min.

Initial Shut-In
Breakdown: 17 Inc. of 3 mins. and a final inc. of 2 Min.

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of – Min.

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of – Min.

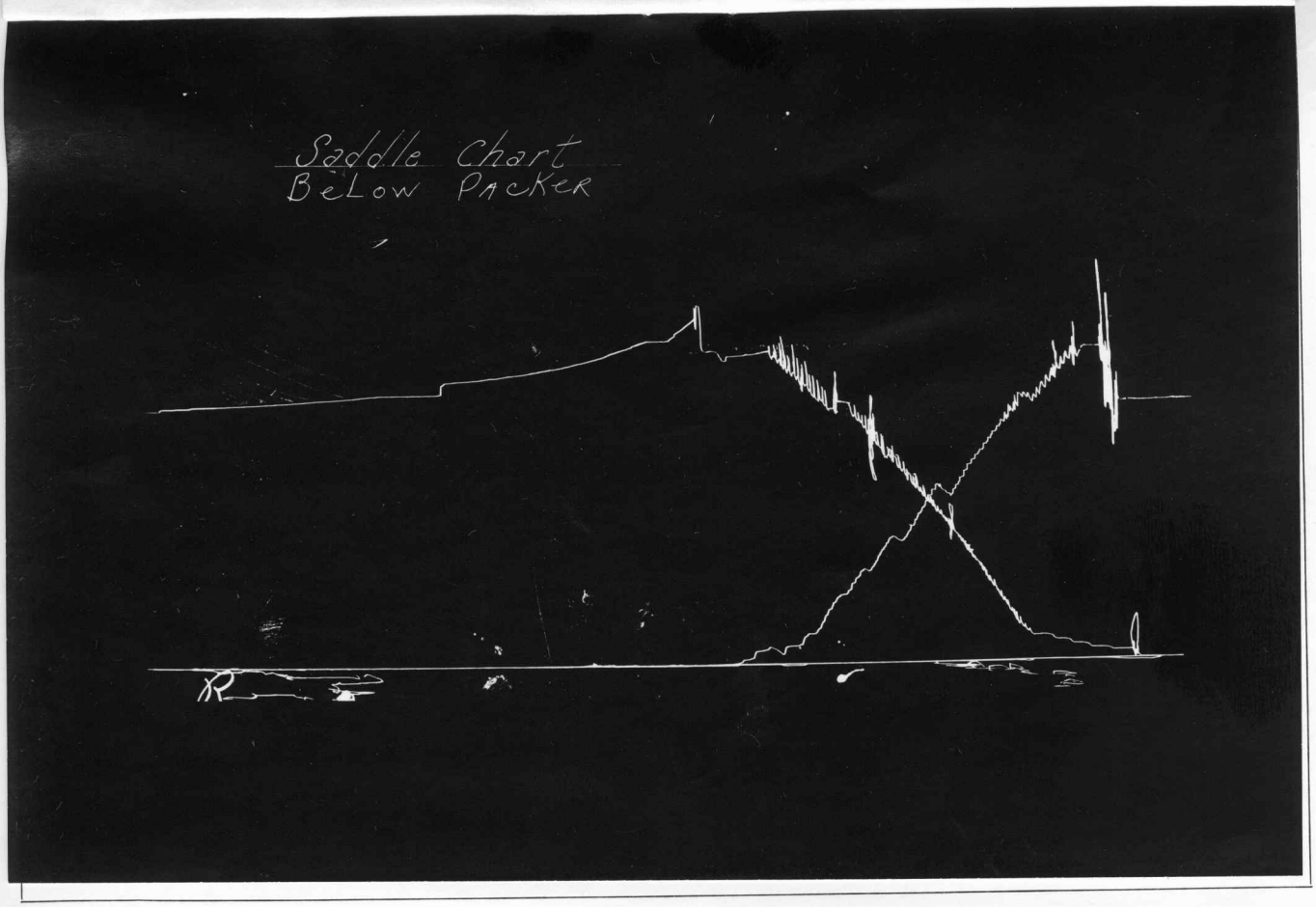
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	19	0	32	0	63	0	162
P 2 5	32	3	600	5	67	3	772
P 3		6	1052	10	80	6	1194
P 4		9	1368	15	91	9	1357
P 5		12	1437	20	103	12	1397
P 6		15	1464	25	116	15	1424
P 7		18	1477	30	124	18	1437
P 8		21	1483	35	133	21	1450
P 9		24	1483	40	148	24	1456
P10		27	1487	45	148	27	1462
P11		30	1487	50	152	30	1469
P12		33	1492	55	158	33	1469
P13		36	1494	60	162		
P14		39	1494				
P15		42	1494				
P16		45	1494				
P17		48	1494				
P18		51	1494				
P19		53	1494				
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2311 PSI
(B)	First Initial Flow Pressure	21 PSI
(C)	First Final Flow Pressure	27 PSI
(D)	Initial Closed-in Pressure	1457 PSI
(E)	Second Initial Flow Pressure	52 PSI
(F)	Second Final Flow Pressure	158 PSI
(G)	Final Closed-in Pressure	1455 PSI
(H)	Final Hydrostatic Mud	2300 PSI

Company Continental Oil Co. Lease and Well No. Thompson #2 Sec. 27 Twp. 25 Rge. 13 Test No. 3 Date 9-3-62



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2311 PSI
(B)	First Initial Flow Pressure	21 PSI
(C)	First Final Flow Pressure	27 PSI
(D)	Initial Closed-in Pressure	1457 PSI
(E)	Second Initial Flow Pressure	52 PSI
(F)	Second Final Flow Pressure	158 PSI
(G)	Final Closed-in Pressure	1455 PSI
(H)	Final Hydrostatic Mud	2300 PSI

Company Continental Oil Co. Lease and Well No. Thompson #2 Sec. 27 Twp. 28 Rge. 13 Test No. 3 Date 9-3-62