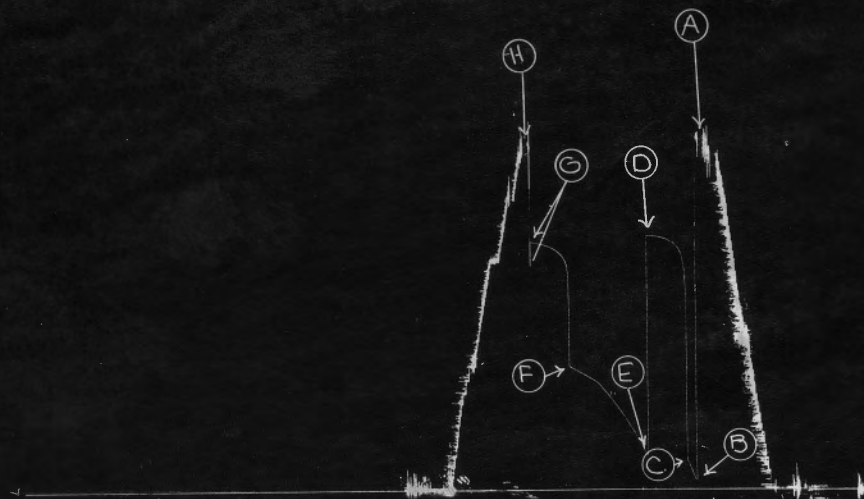


COPPINGER DRILLING INC.
WARWICK #1

TEST #1
TKT# 1632



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud.....	1926	PSI
(B) First Initial Flow Pressure	52	PSI
(C) First Final Flow Pressure	167	PSI
(D) Initial Closed-in Pressure	1420	PSI
(E) Second Initial Flow Pressure	188	PSI
(F) Second Final Flow Pressure	668	PSI
(G) Final Closed-in Pressure	1388	PSI
(H) Final Hydrostatic Mud	1926	PSI

WESTERN

Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903

Elev. 1786' K.B.

Coppinger Drilling, Inc.

Lease & Well No.

Warwick #1

Tkt. #1632

Company _____ Date 5-19-62 Sec. 12 Twp. 31 Range 11W County Barber State Kansas

Test Approved by V. F. Reiserer Western Representative C. F. Bighart

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3608' to 3660' Total Depth 3660'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐
Packer Depth 3603 Ft. Size 6 3/4" Packer Depth 3608 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Tool Size 5 1/2" O.D. Packer Depth 42" F.H. Ft. Size 52 Size 5 1/2" O.D.

RECORDERS Depth 3612 Ft. Clock No. 6806 Depth 3615 Ft. Clock No. 120
Top Make Amerada Cap. 4200# No. 1559 Inside ☐ Outside ☐ Bottom Make Western Cap. 1000# No. 59 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 10:46A
Tool Open I.F.P. From 10:48A M. to 10:56A M. Hr. 8 Min. From (B) 52 P.S.I. To (C) 167 P.S.I.
Tool Closed I.C.I.P. From 10:56A M. to 11:26A M. Hr. 30 Min. (D) 1420 P.S.I.
Tool Open F.F.P. From 11:26A M. to 12:26P M. Hr. 1 Min. From (E) 188 P.S.I. To (F) 668 P.S.I.
Tool Closed F.C.I.P. From 12:26P M. to 12:56P M. Hr. 30 Min. (G) 1388 P.S.I.
Initial Hydrostatic Pressure (A) 1926 P.S.I. Final Hydrostatic Pressure (H) 1926 P.S.I.

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

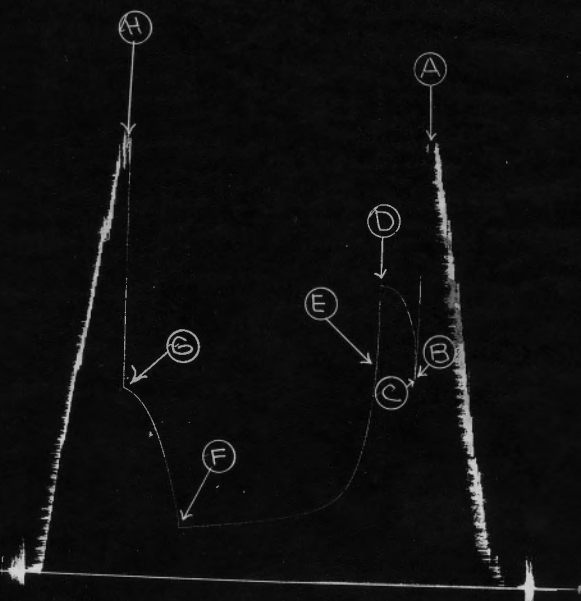
BLOW _____ Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 1360 Oil ☐ Gas 1360 Water

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 37 Weight 10.1 Maximum Temp. 109 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size - Make - Ser. No. -
Type Circ. Sub. Plug Did Tool Plug? ☐ No Where? - Did Packer Hold? ☒ Yes

Remarks 70' Tool
1170' L.O. and wt. Pipe - 2 1/4" I.D.
2420' Drill Pipe - 3 1/2" I.D.

COPPINGER DRLG. INC.
WARWICK #1

TEST #2
TKT # 1634



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud.....	2379	PSI
(B) First Initial Flow Pressure	1127	PSI
(C) First Final Flow Pressure	1127	PSI
(D) Initial Closed-in Pressure	1662	PSI
(E) Second Initial Flow Pressure	1169	PSI
(F) Second Final Flow Pressure	261	PSI
(G) Final Closed-in Pressure	1033	PSI
(H) Final Hydrostatic Mud	2379	PSI

WESTERN

Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903

Elev. 1786' K.B.

Company Coppinger Drilling, Inc.

Lease & Well No. Wardick #1

Tkt. #1634

Date 5-24-62 Sec. 12 Twp. 31 Range 11W County Barber State Kansas

Test Approved by V. F. Heiserer Western Representative C. F. Bighart

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4517' to 4541' Total Depth 4541'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No ☐
Packer Depth 4512 Ft. Size 6 3/4" Packer Depth 4517 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 24 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4531 Ft. Clock No. 6859 Depth 4534 Ft. Clock No. 120
Top Make Amorada Cap. 4200# No. 1559 Inside Outside Bottom Make Western Cap. 4000# No. 59 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 5:22 P M
Tool Open I.F.P. From 5:23P M. to 5:25P M. ☐ Hr. 2 Min. From (B) 1127 P.S.I. To (C) 1127 P.S.I.
Tool Closed I.C.I.P. From 5:25P M. to 5:55P M. ☐ Hr. 30 Min. (D) 1662 P.S.I.
Tool Open F.F.P. From 5:55P M. to 8:25P M. 2 Hr. 30 Min From (E) 1169 P.S.I. To (F) 261 P.S.I.
Tool Closed F.C.I.P. From 8:25P M. to 9:10P M. ☐ Hr. 45 Min. (G) 1033 P.S.I.
Initial Hydrostatic Pressure (A) 2379 P.S.I. Final Hydrostatic Pressure (H) 2379 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION (See Attached Copy) M.
M.
M.

BLOW Gas in one minute Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. None Oil ☐ Gas ☐ Water ☐

Reversed Out. ☐ Yes ☒ No Mud Type Starch Viscosity 45 Weight 9.9 Maximum Temp. 127 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size ☐ Make ☐ Ser. No. ☐
Type Circ. Sub. Plug Did Tool Plug? No Where? ☐ Did Packer Hold? Yes

Remarks

42' Tool
1170' Drill Collar and Weight Pipe
3329' Drill Pipe

"J. Coppinger Drlg., Inc.
D.D.D. #2

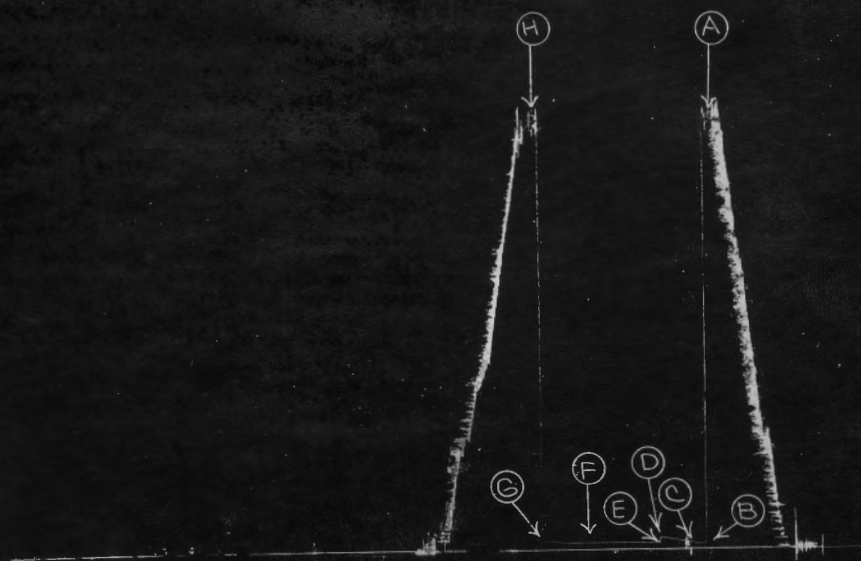
Gas Gauge on Harwick #1

Spring Gauge

42½ lbs.	5,400,000	5 Mins.
40 "	5,210,000	10 "
30 "	4,260,000	15 "
22 "	3,300,000	20 "
18 "	3,120,000	25 "
17 "	3,020,000	30 "
16 "	2,930,000	35 "
14 "	2,740,000	40 "
14 "	2,740,000	45 "
13.5 "	2,685,000	50 "
13 "	2,630,000	55 "
12 "	2,530,000	60 "
12 "	2,530,000	65 "
11 "	2,420,000	70 "
10.5 "	2,360,000	75 "
10 "	2,310,000	80 "
10 "	2,310,000	85 "
10 "	2,310,000	90 "
10 "	2,310,000	95 "
9.5 "	2,250,000	100 "
9 "	2,190,000	105 "
9 "	2,190,000	110 "
8 "	2,060,000	115 "
8 "	2,060,000	120 "
8 "	2,060,000	125 "
8 "	2,060,000	130 "
7 3/4 "	1,980,000	135 "
7 "	1,930,000	140 "
7 "	1,930,000	145 "
7 "	1,930,000	150 "

COPPINGER DRUG. INC
WARWICK #1

TEST # 3
TKT # 1635



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud.....	2400	PSI
(B) First Initial Flow Pressure	41	PSI
(C) First Final Flow Pressure	41	PSI
(D) Initial Closed-in Pressure	83	PSI
(E) Second Initial Flow Pressure	52	PSI
(F) Second Final Flow Pressure	52	PSI
(G) Final Closed-in Pressure	62	PSI
(H) Final Hydrostatic Mud	2400	PSI

Company
Coppinger Drug, Inc.
Lease and Well No.
SEC.
I.W.P.
NG
151 INU
DATE



Home Office: Great Bend, Kansas

P. O. Box 793

GLadstone 3-7903 Elev. 1786' K.B.

Company Coppinger Drilling, Inc. Lease & Well No. Warlock #1 Tkt. #1635

Date 5-25-62 Sec. 12 Twp. 31 Range 11W County Barber State Kansas

Test Approved by V. F. Reiserer Western Representative C. F. Highart

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4541' to 4562' Total Depth 4562'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Packer Depth 4536 Ft. Size 6 3/4" Packer Depth 4541 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 21 Ft. Size 5 1/2" F.H.

RECORDERS	Depth <u>4549</u> Ft.	Clock No. <u>6859</u>	Depth <u>4552</u> Ft.	Clock No. <u>120</u>
	Top Make <u>Amerada</u> Cap. <u>4200#</u> No. <u>1559</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>59</u>	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 6:27 A M
Tool Open I.F.P. From 6:29A M. to 6:35A M. Hr. 6 Min. From (B) 41 P.S.I. To (C) 41 P.S.I.
Tool Closed I.C.I.P. From 6:35A M. to 7:05A M. Hr. 30 Min. (D) 83 P.S.I.
Tool Open F.F.P. From 7:05A M. to 8:05A M. Hr. 1 Min. From (E) 52 P.S.I. To (F) 52 P.S.I.
Tool Closed F.C.I.P. From 8:05A M. to 8:35A M. Hr. 30 Min. (G) 62 P.S.I.
Initial Hydrostatic Pressure (A) 2400 P.S.I. Final Hydrostatic Pressure (H) 2400 P.S.I.

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

BLOW Very weak throughout test Bottom Choke Size 3/4 in.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 35 Oil ☐ Gas ☐ Water

35' very slight oil speckled mud Mud
Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 45 Weight 9.9 Maximum Temp. - °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size - Make - Ser. No. -

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

Remarks

40' Tool
1170' D.C. and Mt. Pipe - 2 1/4" I.D.
3352' Drill Pipe