WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Bowers Drilling Company Lease & Well No. Chain #1

Elevation 1766 Derrick Floor Formation Douglas Ticket Number 5369

Date April 4,1966 Sec. 21 Twp. 31 Range 11W County Barber State Kansas

Test Approved by Robert E. McCann Western Representative Leon Elmore

Formation Test No. 1 O.K. X Misrun Interval Tested From 3789' to 3802' Total Depth 3802'

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

Packer Depth 3784 Ft. Size 6 3/4 Packer Depth 3789 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 13 Ft. Size 5½ OD

RECORDERS Depth 3793 Ft. Clock No. 8378 Depth 3796 Ft. Clock No. 5665

Top Make Kuster Cap. 4300 No. 1566 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 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 12:18 P M

Tool Open I.F.P. From 12:21 M to 12:26 M Hr. 5 Min. From (B) 798 P.S.I. To (C) 893 P.S.I.

Tool Closed I.C.I.P. From 12:26 M. to 12:56 M. Hr. 30 Min. (D) 1246 P.S.I.

Tool Open F.F.P. From 12:56 M. to 1:36 M. Hr. 40 Min. From (E) 908 P.S.I. To (F) 944 P.S.I.

Tool Closed F.C.I.P. From 1:36 M. to 2:06 M. Hr. 30 Min. (G) 1233 P.S.I.

Initial Hydrostatic Pressure (A) 2086 P.S.I. Final Hydrostatic Pressure (H) 2073 P.S.I.

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

BLOW STRONG Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft.

Mud

Reversed Out Yes X No Mud Type starch Viscosity 38 Weight 9.9 Maximum Temp. 102 °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

Length Drill Pipe 2782 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 765 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 84 ft.

I. D. Drill Collars 2¼ in. Length D.S.T. Tool 30 ft.

Remarks Gas to surface in 1 minutes.

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P. O. Box 793
GREAT BEND, KANSAS

Company Bowers Drilling Co. Lease & Well No. Chain #1

Test No. 1 Interval Tested From 3789' To 3802'

Time	Max Press. P.S.I.	Description of Flow
5 minutes P.F.	13 lbs	2,630,000
5 minutes F.F.	25	3,780,000
10	27	3,970,000
20	30	4,260,000
30	30	4,260,000
40	30	4,260,000

Size Choke Surface 3/4 In. Bottom 3/4 In.

Remarks Gas to surface in one minute.

WHELAN PRINTERS, GREAT BEND, KS.

WESTERN TESTING CO., INC.

Pressure Data

Date April 4,1966 — Test Ticket No. 5369

Recorder No. 1566 — Capacity 4300 — Location 3793 Ft.

Clock No. 8378 — Elevation 1766 Derrick Floor — Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2086 P.S.I.	Opened Tool	12:18 P M	
B First Initial Flow Pressure	798 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	893 P.S.I.	Initial Closed-in Pressure	30 Mins.	28 Mins.
D Initial Closed-in Pressure	1246 P.S.I.	Second Flow Pressure	40 Mins.	40 Mins.
E Second Initial Flow Pressure	908 P.S.I.	Final Closed-in Pressure	30 Mins.	32 Mins.
F Second Final Flow Pressure	944 P.S.I.			
G Final Closed-in Pressure	1233 P.S.I.			
H Final Hydrostatic Mud	2073 P.S.I.			

PRESSURE BREAKDOWN

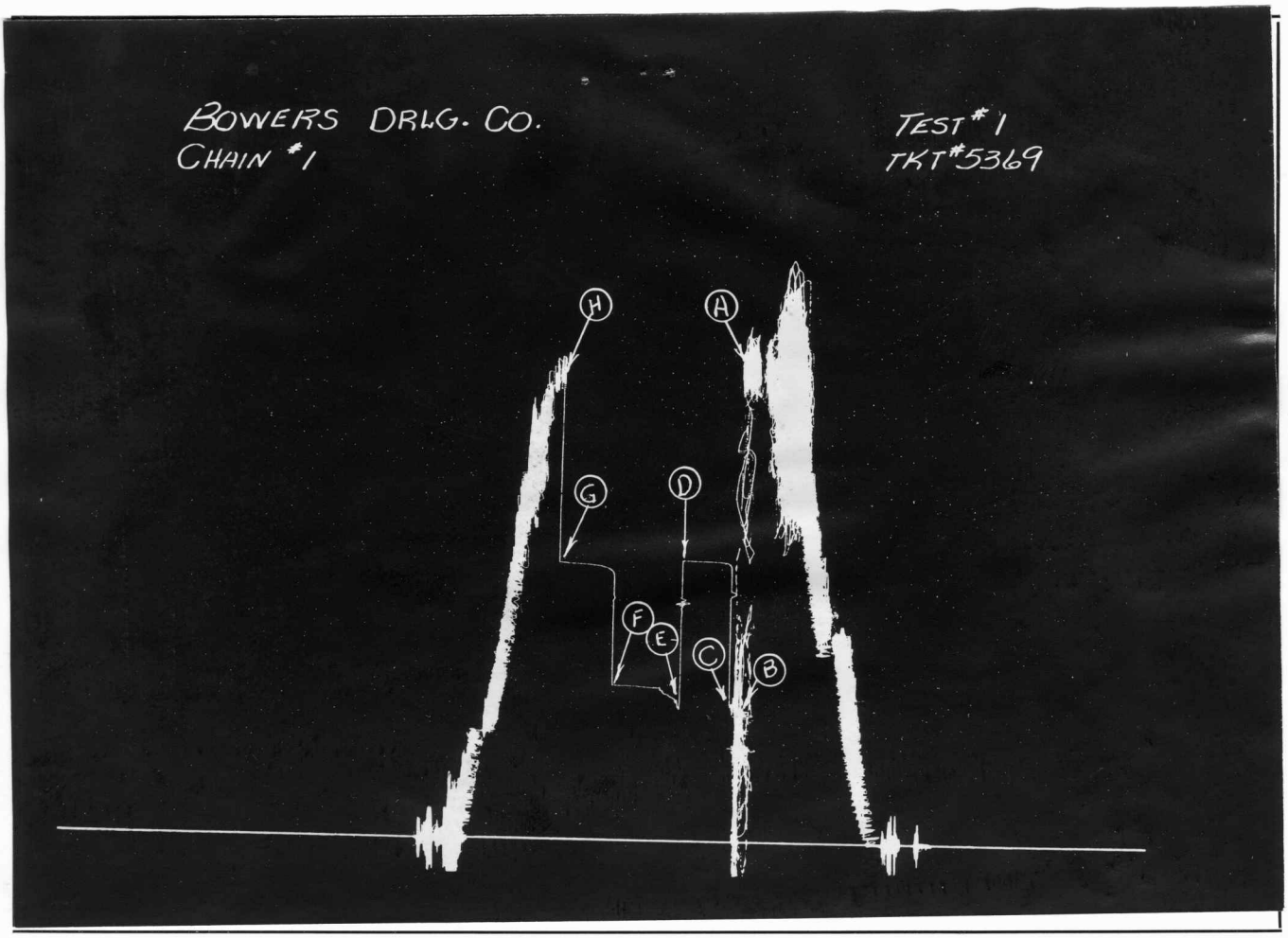
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 1 Min.

Second Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	798	0	893	0	908	0	944
P 2 5	893	3	1242	5	926	3	1211
P 3		6	1246	10	937	6	1220
P 4		9	1246	15	944	9	1222
P 5		12	1246	20	944	12	1244
P 6		15	1246	25	944	15	1226
P 7		18	1246	30	944	18	1228
P 8		21	1246	35	944	21	1229
P 9		24	1246	40	944	24	1230
P10		27	1246			27	1231
P11		28	1246			30	1232
P12						32	1233
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2086 PSI
(B)	First Initial Flow Pressure	798 PSI
(C)	First Final Flow Pressure	893 PSI
(D)	Initial Closed-in Pressure	1246 PSI
(E)	Second Initial Flow Pressure	908 PSI
(F)	Second Final Flow Pressure	944 PSI
(G)	Final Closed-in Pressure	1233 PSI
(H)	Final Hydrostatic Mud	2073 PSI

COMPANY BOWERS DRILLING CO. LEASE AND WELL NO. CHAIN #1 SEC. 27 TWP. 31 RGE. 11W TEST NO. 1 DATE 4-4-66