WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Co. Lease & Well No. Cheatum #1

Elevation 1458 K.B. Ticket Number 3161

Date 8-15-63 Sec. Twp. Range County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative Guy M. Knipe

---

Formation Test No. 1 O.K. X Misrun Interval Tested From 4110 to 4125 Total Depth 4125

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 4107 Ft. Size 6 3/4 Packer Depth 4110 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 15' Ft. Size 5½" O.D.

RECORDERS Depth 4117 Ft Clock No. 6806 Depth 4120 Ft. Clock No. 4

Top Make Amerada Cap. 4200 No. 1558 Inside Outside Bottom Make W.T.C. Cap. 4000 No. [illegible] 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 1:40A M

Tool Open I.F.P. From 1:41A M to 1:46A M Hr. 5 Min. From (B) 31 P.S.I. To (C) 31 P.S.I.

Tool Closed I.C.I.P. From 1:46A M. to 2:16A M. Hr. 30 Min. (D) 1422 P.S.I.

Tool Open F.F.P. From 2:16A M. to 3:31A M. 1 Hr. 15 Min. From (E) 31 P.S.I. To (F) 44 P.S.I.

Tool Closed F.C.I.P. From 3:31A M. to 4:01A M. Hr. 30 Min. (G) 1231 P.S.I.

Inital Hydrostatic Pressure (A) 2300 P.S.I. Final Hydrostatic Pressure (H) 2262 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 to surface in 12 minutes-to small to gauge Bottom Choke Size 3/4 in.

Did Well Flow X Yes No Recovery Total Ft. 112' heavy gas cut mud few spots of oil.

Reversed Out Yes X No Mud Type Starch Viscosity 44 Weight 10.3 Maximum Temp. 126 °F Mud

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

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

Length Drill Pipe 3145 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 946 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D. S. T. Tool 34 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 8-15-63 Test Ticket No. 3181

Recorder No. 1558 Capacity 4200 Location 4117 Ft.

Clock No. 6806 Elevation 1458 K.E. Well Temperature 126 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2300	P.S.I.	Opened Tool 1:41A	M
B	First Initial Flow Pressure	31	P.S.I.	First Flow Pressure 5 Mins.	5 Mins.
C	First Final Flow Pressure	31	P.S.I.	Initial Closed-in Pressure 30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1422	P.S.I.	Second Flow Pressure 75 Mins.	75 Mins.
E	Second Initial Flow Pressure	31	P.S.I.	Final Closed-in Pressure 30 Mins.	33 Mins.
F	Second Final Flow Pressure	44	P.S.I.		
G	Final Closed-in Pressure	1231	P.S.I.		
H	Final Hydrostatic Mud	2262	P.S.I.		

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	31
P 2 5	31
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	31
3	421
6	735
9	968
12	1142
15	1250
18	1311
21	1355
24	1380
27	1401
30	1413
33	1422

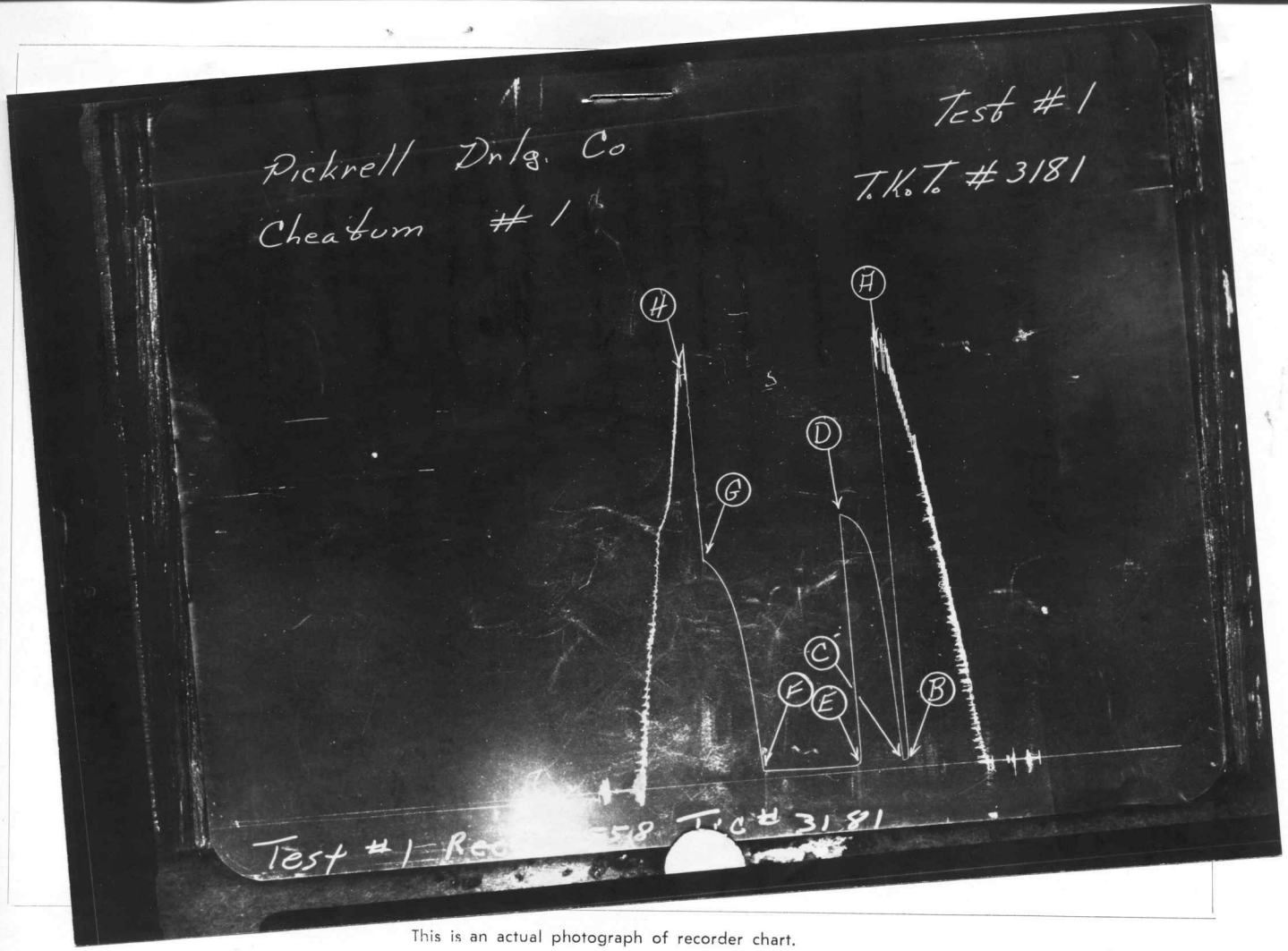
Second Flow Pressure
Breakdown: 15 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	31
5	
10	31
15	31
20	31
25	31
30	31
35	31
40	32
45	35
50	37
55	38
60	40
65	42
70	43
75	44

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	44
3	331
6	568
9	755
12	897
15	993
18	1062
21	1114
24	1154
27	1188
30	1219
33	1231

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud 2300	..... PSI
(B)	First Initial Flow Pressure 31	..... PSI
(C)	First Final Flow Pressure 31	..... PSI
(D)	Initial Closed-in Pressure 1422	..... PSI
(E)	Second Initial Flow Pressure 31	..... PSI
(F)	Second Final Flow Pressure 44	..... PSI
(G)	Final Closed-in Pressure 1231	..... PSI
(H)	Final Hydrostatic Mud 2262	..... PSI

Company Pickrell Drilling Co. Lease and Well No. Cheatum #1 Sec. ____ Twp. ____ Rge. ____ Test No. 1 Date 8-15-63

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Co. Lease & Well No. Cheatum #1

Elevation 1458 K.B. Ticket Number 3182

Date 8-15-63 Sec. Twp. Range County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative Guy M. Knipe

Formation Test No. 2 O.K. X Misrun Interval Tested From 4125 to 4155 Total Depth 4155

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 4122 Ft. Size 6 3/4 Packer Depth 4125 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 4147 Ft Clock No. 6806 Depth 4150 Ft. Clock No. 4

Top Make Amerada Cap. 4200 No. 1558 Inside ~~Outside~~ Bottom Make W.T.C. 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 5:55P M

Tool Open I.F.P. From 5:56P M to 6:01 M Hr. 5 Min. From (B) 44 P.S.I. To (C) 44 P.S.I.

Tool Closed I.C.I.P. From 6:01P M. to 6:31P M. Hr. 30 Min. (D) 113 P.S.I.

Tool Open F.F.P. From 6:31P M. to 7:31 M. 1 Hr. Min. From (E) 44 P.S.I. To (F) 59 P.S.I.

Tool Closed F.C.I.P. From 7:31 M. to 8:03 M. Hr. 32 Min. (G) 88 P.S.I.

Inital Hydrostatic Pressure (A) 2343 P.S.I. Final Hydrostatic Pressure (H) 2273 P.S.I.

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

M.

M.

M.

BLOW Weak blow for 15 minute dyed-flushed tool few bubles dyed Bottom Choke Size 3/4 in.

Did Well Flow Yes X No Recovery Total Ft. 40' of slight gas cut drilling mud.

Reversed Out Yes X No Mud Type Starch Viscosity 52 Weight 10.2 Maximum Temp. 126 °F Mud

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

Type Circ. Sub plug Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe 3160 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 946 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D. S. T. Tool 49 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 8-15-63 Test Ticket No. 3182

Recorder No. 1558 Capacity 4200 Location 4147 Ft.

Clock No. 6806 Elevation 1458 K.B. Well Temperature 126 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2343 P.S.I.	Opened Tool	5:56P M	
B	First Initial Flow Pressure	44 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	113 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	44 P.S.I.	Final Closed-in Pressure	32 Mins.	30 Mins.
F	Second Final Flow Pressure	59 P.S.I.			
G	Final Closed-in Pressure	88 P.S.I.			
H	Final Hydrostatic Mud	2273 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.

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

Point Mins.	Press.
P 1 0	44
P 2 5	44
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In

Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	44
3	46
6	56
9	67
12	78
15	86
18	94
21	103
24	111
77	113

Second Flow Pressure

Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

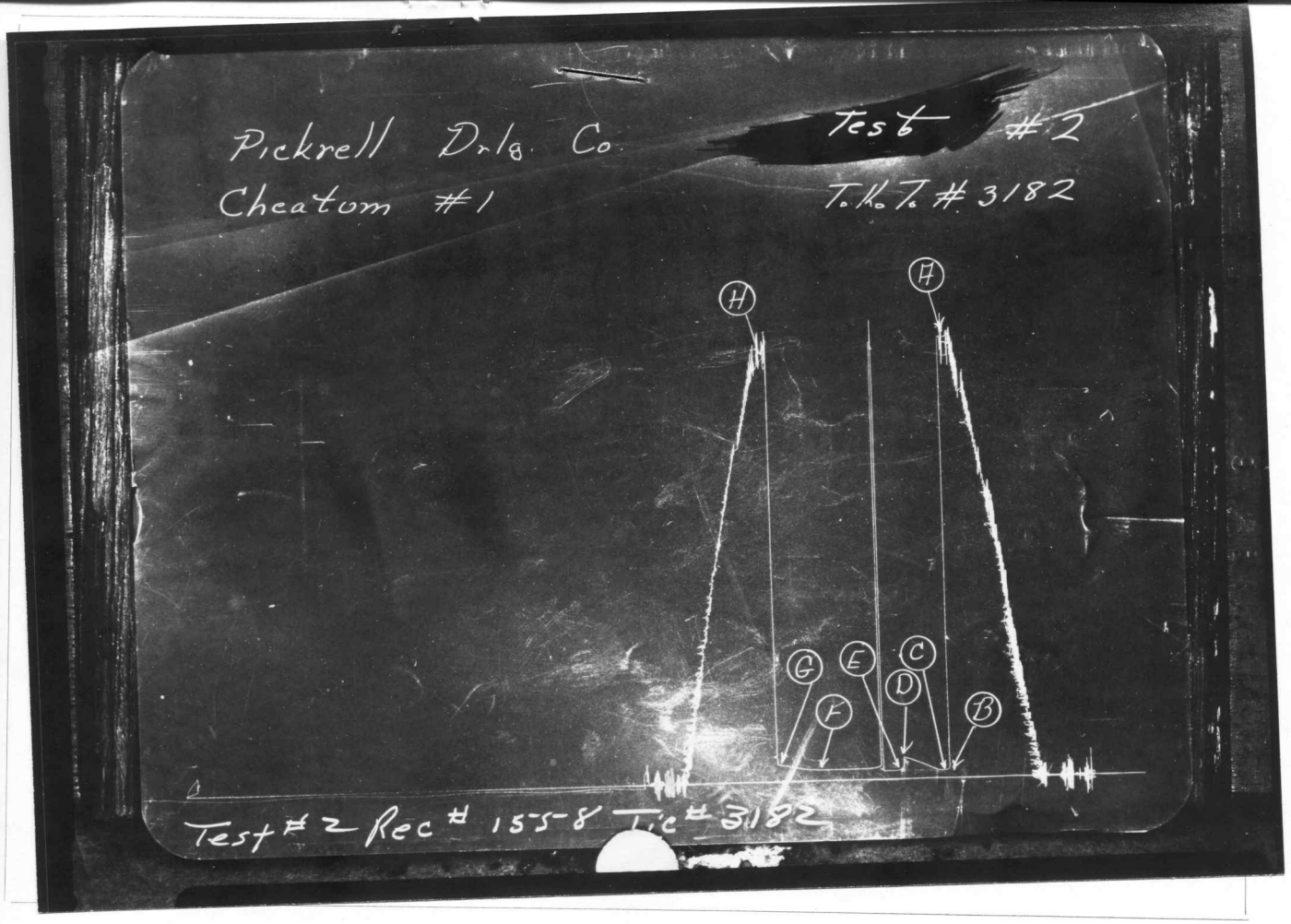
Point Minutes	Press.
0	44
5	44
10	44
15	44
20	59
25	59
30	59
35	59
40	59
45	59
50	59
55	59
60	59

Final Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	59
3	59
6	60
9	63
12	67
15	71
18	75
21	78
24	81
27	85
30	88

WHELAN PRINTERS



This is an actual photograph of recorder chart.

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

Company Pickrell Drlg. Co. Lease and Well No. Cheatum #1 Sec. Twp. Rge. Test No. 2 Date 8-15-63