

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drilling Inc.	Test No.	1
Well Name & Number	Lust #1	Zone Tested	Marmaton
Company Address	801 Union Center, Wichita Ks.	Date	5/19/84
Company Rep.	Mark Galyon	Tester	Kevin Odle
Contractor	Abercrombie Drilling Inc.	Elevation	2928
Location: Sec. 35 Twp. 18s Rge. 31w Co. Scott State Ks.		Est. Feet of Pay	

Recorder No. 10983 Type AK-1 Range 4100 PSI

Recorder No. 13277 Type AK-1 Range 4125 PSI

Recorder Depth 4395 Clock # 22992

Recorder Depth 4398 Clock # 25562

(A) Initial Hydrostatic Mud 2267 PSI

Tool Open Before I.S.I. 30 Mins.

(B) First Initial Flow Pressure 204 PSI

Initial Shut-in 45 Mins.

(C) First Final Flow Pressure 694 PSI

Flow Period 45 Mins.

(D) Initial Shut-in Pressure 1104 PSI

Final Shut-in 45 Mins.

(E) Second Initial Flow Pressure 735 PSI

Top Choke Size 1" Hole Size 7 7/8"

(F) Second Final Flow Pressure 981 PSI

Bottom Choke Size 3/4" Rubber Size 6 3/4"

(G) Final Shut-in Pressure 1094 PSI

Tool Open @ 1:00 AM

(H) Final Hydrostatic Mud 2257 PSI

Blow Remarks 1st open: Very strong blow.

Temperature 130

2nd open: Very strong blow.

Mud Weight 9.2 Viscosity 40

Fluid Loss 13.6

Interval Tested 4376-4403

Mud Chlorides: 5,000 ppm

Anchor Length 27

Gas to surface in 30 minutes on 1st shut in.

Top Packer Depth 4371

Bottom Packer Depth 4376

Total Depth 4403

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.70 Ft. Run 545

Recovery-Total Feet 2670

Recovered 2190 Feet Of gassy oil, Gravity: 38 API corrected.

Recovered 480 Feet Of gassy mud cut oil, 20% gas, 60% oil, 20% mud.

Recovered 1733 Feet Of Gas in pipe.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job \$675.00

INITIAL SHUT-IN

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RECORDER NO: 10983 DEPTH: 4403 FT.
INITIAL FLOW TIME (T): 30 MIN.

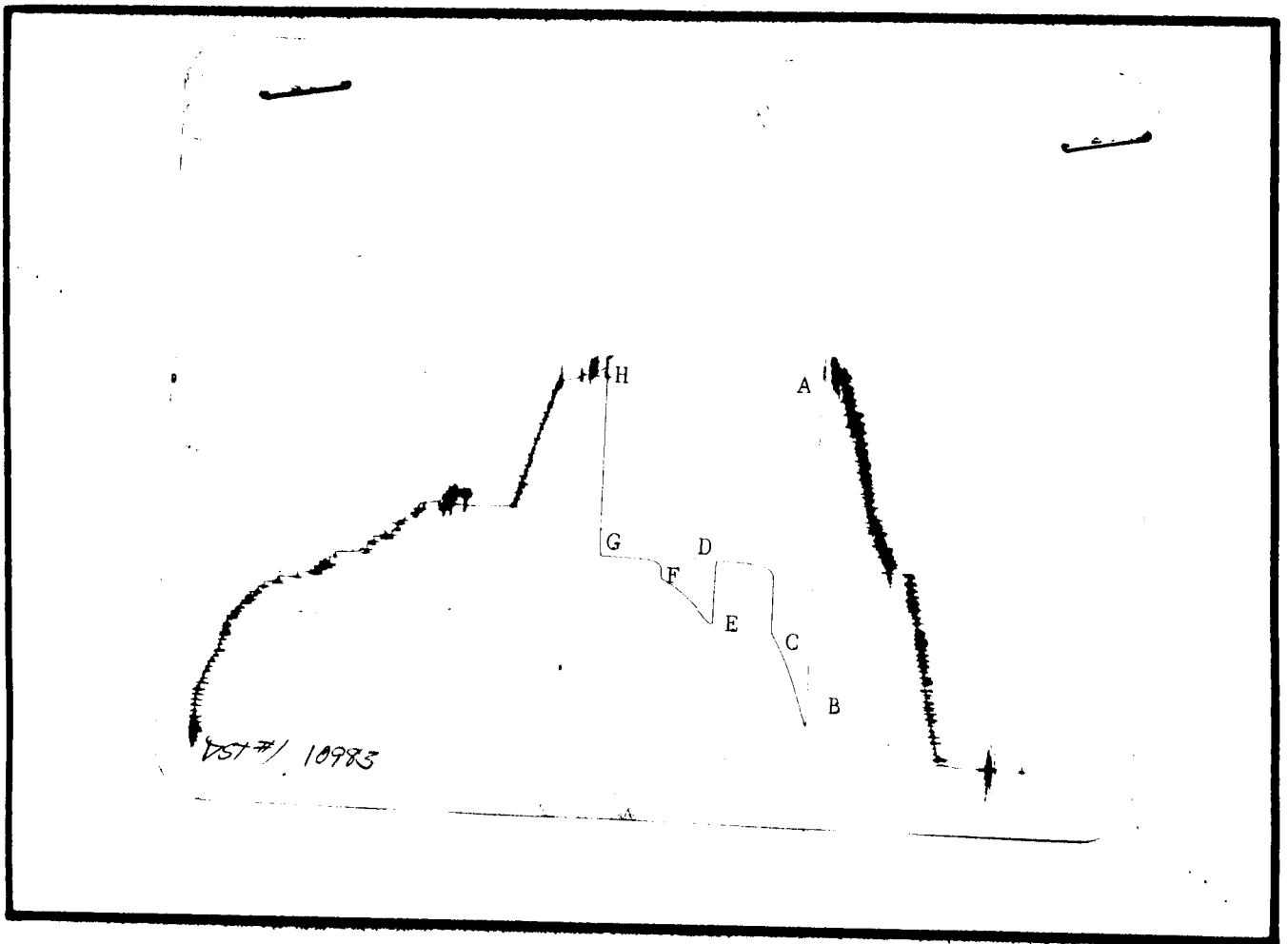
DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	694.4
5	0.845	1064.7
10	0.602	1077.0
15	0.477	1083.2
20	0.398	1087.3
25	0.342	1092.4
30	0.301	1095.5
35	0.269	1097.5
40	0.243	1098.5
45	0.222	1099.6

FINAL SHUT-IN

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RECORDER NO: 10983 DEPTH: 4403 FT.
TOTAL FLOW TIME: 75 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	978.5
5	1.204	1081.1
10	0.929	1085.2
15	0.778	1088.3
20	0.677	1090.3
25	0.602	1091.4
30	0.544	1092.4
35	0.497	1093.4
40	0.459	1094.4
45	0.426	1095.5



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2267	2262	PSI
(B) First Initial Flow Pressure	204	196.9	PSI
(C) First Final Flow Pressure	694	694.4	PSI
(D) Initial Closed-in Pressure	1104	1099.6	PSI
(E) Second Initial Flow Pressure	735	738.5	PSI
(F) Second Final Flow Pressure	981	978.5	PSI
(G) Final Closed-in Pressure	1094	1095.5	PSI
(H) Final Hydrostatic Mud	2257	2252	PSI

HORNER PLOT
ABERCROMBIE DR LG. INC.
LUST #1 DEPTH: 4403
RECORDER NO. 10983
INITIAL SHUT-IN: \diamond
FINAL SHUT-IN: \square

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

$\text{LOG}((T+DT)/DT)$

PRESSURE (PSI)

1300
1200
1100
1000
900
800



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DRILL-STEM TEST DATA

Company	Abercrombie Drilling Inc.	Test No.	2
Well Name & Number	Lust #1	Zone Tested	Marmaton Base
Company Address	801 Union Center, Wichita Ks.	Date	5/19/84
Company Rep.	Mark Galyon	Tester	Kevin Odle
Contractor	Abercrombie Drilling Inc.	Elevation	2928 KB
Location: Sec.	35Twp. 18s Rge. 31w Co. Scott	State	Ks.
			Est. Feet of Pay

Recorder No. 10983 Type AK-1 Range 4100 PSI

Recorder Depth 4452 Clock # 22992

(A) Initial Hydrostatic Mud 2257 PSI

(B) First Initial Flow Pressure 30 PSI

(C) First Final Flow Pressure 30 PSI

(D) Initial Shut-in Pressure 858 PSI

(E) Second Initial Flow Pressure 30 PSI

(F) Second Final Flow Pressure 30 PSI

(G) Final Shut-in Pressure 602 PSI

(H) Final Hydrostatic Mud 2246 PSI

Temperature 118

Mud Weight 9.3 Viscosity 49

Fluid Loss 11.2

Interval Tested 4435-4460

Anchor Length 25

Top Packer Depth 4430

Bottom Packer Depth 4435

Total Depth 4460

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 2.7 Ft. Run 545

Recovery-Total Feet 15

Recovered 15 Feet Of drilling mud.

Recovered _____ Feet Of Resistivity: 0.10 ohms @ 68.° F

Recovered _____ Feet Of Chlorides: 7,000 ppm

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job \$675.00

Recorder No. 13277 Type AK-1 Range 4125 PSI

Recorder Depth 4455 Clock # 25562

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Top Choke Size 1" Hole Size 7 7/8"

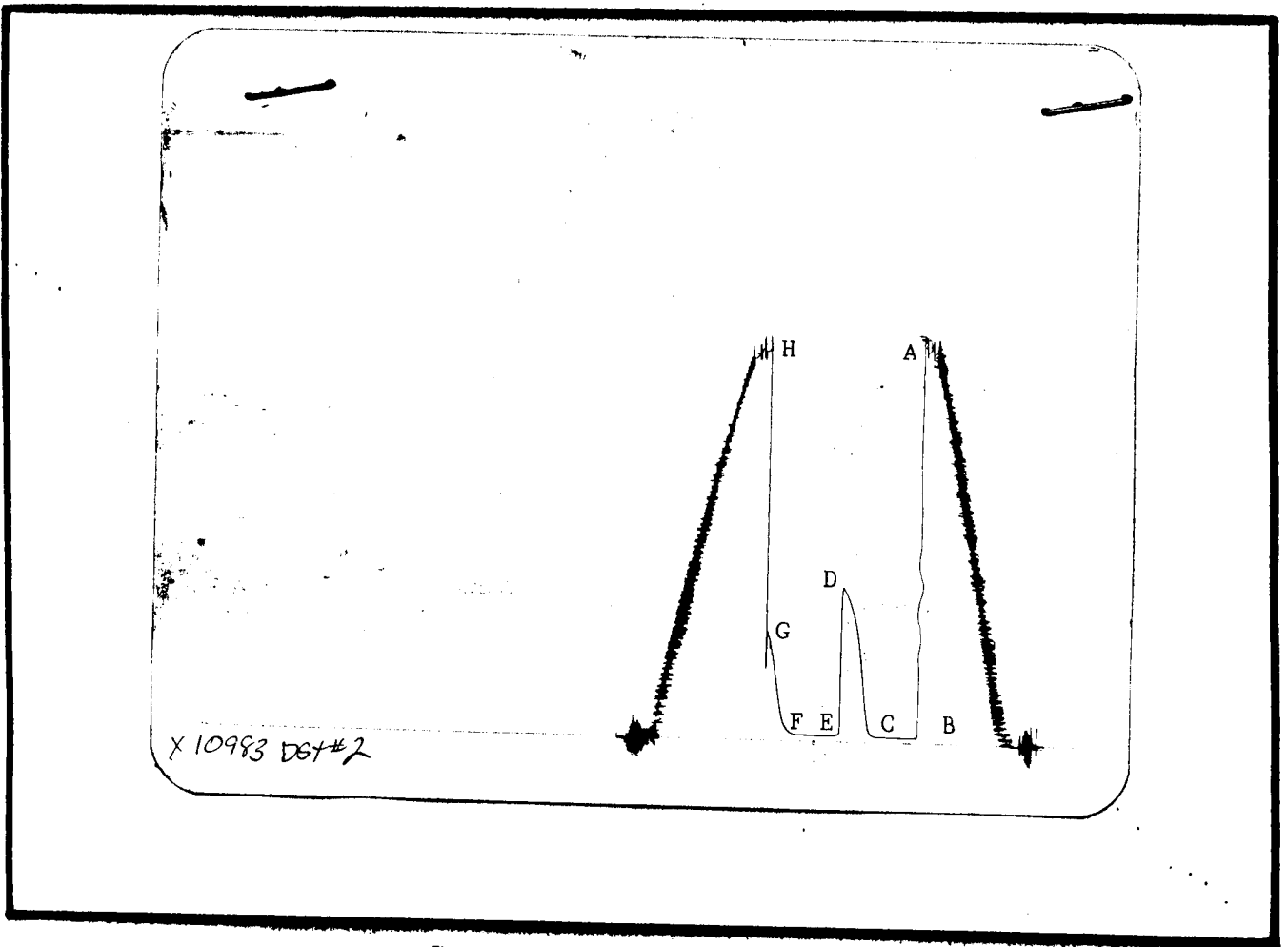
Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 9:20 PM

Blow Remarks 1st open: Very weak, dead in 20 minutes.

2nd open: No blow.

Mud Chlorides: 5,000 ppm



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2257	PSI
(B) First Initial Flow Pressure	30	PSI
(C) First Final Flow Pressure	30	PSI
(D) Initial Closed-in Pressure	858	PSI
(E) Second Initial Flow Pressure	30	PSI
(F) Second Final Flow Pressure	30	PSI
(G) Final Closed-in Pressure	602	PSI
(H) Final Hydrostatic Mud	2246	PSI

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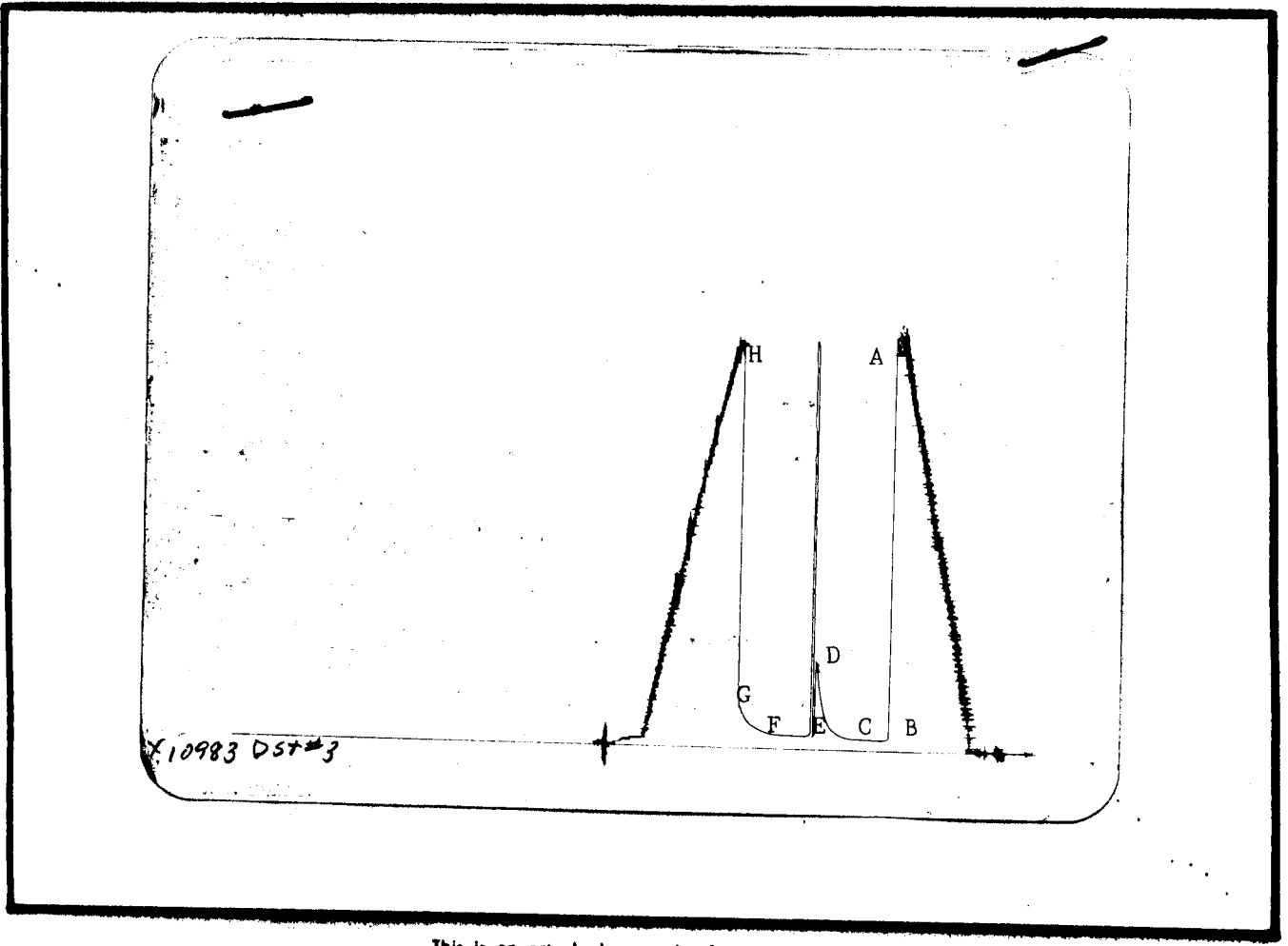
Company	Abercrombie Drilling Inc.	Test No.	3
Well Name & Number	Lust #1	Zone Tested	Mississippi
Company Address	801 Union Center, Wichita Ks.	Date	5/20/84
Company Rep.	Mark Galyon	Tester	Kevin Odle
Contractor	Abercrombie Drilling Inc.	Elevation	2928 KB
Location: Sec.	35 Twp. 18s Rge. 31w Co. Scott State Ks.	Est. Feet of Pay	

Recorder No. 10983 Type Ak-1 Range 4100 PSI
 Recorder Depth 4516 Clock # 22992
 (A) Initial Hydrostatic Mud 2308 PSI
 (B) First Initial Flow Pressure 61 PSI
 (C) First Final Flow Pressure 61 PSI
 (D) Initial Shut-in Pressure 500 PSI
 (E) Second Initial Flow Pressure 81 PSI
 (F) Second Final Flow Pressure 81 PSI
 (G) Final Shut-in Pressure 234 PSI
 (H) Final Hydrostatic Mud 2298 PSI
 Temperature 128
 Mud Weight 9.2 Viscosity 44
 Fluid Loss 12
 Interval Tested 4523-4580
 Anchor Length 57
 Top Packer Depth 4518
 Bottom Packer Depth 4523
 Total Depth 4580
 Drill Pipe Size 4 1/2 XH
 Wt. Pipe I. D. 2.7 Ft. Run 545
 Recovery-Total Feet 60

Recorder No. 13277 Type AK-1 Range 4125 PSI
 Recorder Depth 4518 Clock # 25562
 Tool Open Before I.S.I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 30 Mins.
 Final Shut-in 30 Mins.
 Top Choke Size 1" Hole Size 7 7/8"
 Bottom Choke Size 3/4" Rubber Size 6 3/4"
 Tool Open @ 6:25 PM
 Blow Remarks 1st open: Very weak, died in 10 minutes.
2nd open: No blow, flushed tool.
 Mud Chlorides: 6,000 ppm

Recovered 60 Feet Of heavy oil cut mud, 5% oil, 95% mud.
 Recovered _____ Feet Of Resistivity: 0.60 ohms @ 65° F
 Recovered _____ Feet Of Chlorides: 10,000 ppm
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job \$675.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2308	PSI
(B) First Initial Flow Pressure	61	PSI
(C) First Final Flow Pressure	61	PSI
(D) Initial Closed-in Pressure	500	PSI
(E) Second Initial Flow Pressure	81	PSI
(F) Second Final Flow Pressure	81	PSI
(G) Final Closed-in Pressure	234	PSI
(H) Final Hydrostatic Mud	2298	PSI