7-11-22W

TEST REPORT

CRUDE OIL TESTING INC.
(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 1180

Company A. Scott Ritchie Date 6/07/81
Company Address 125 N. Market Suite 950- Wichita No. of Charts 5
Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas
Well Name And Number Bucholz #B-2 Tester Bud O'Dell
Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone Top & 35' Type of Test Conventional

DST# 1 Interval 3,480 To 3,534 Total Depth 3,534
Open 30 - 9:00 Shut In 30 - 9:30 Open 30 - 10:00 Shut In 30 - 10:30
Packer(s) Set 8:58 A.M. P.M. Started off Bottom 11:00 A.M. P.M.
Blow 1st Open: Good steady blow off bottom of bucket in 6 min.
2nd Open: Good steady blow.

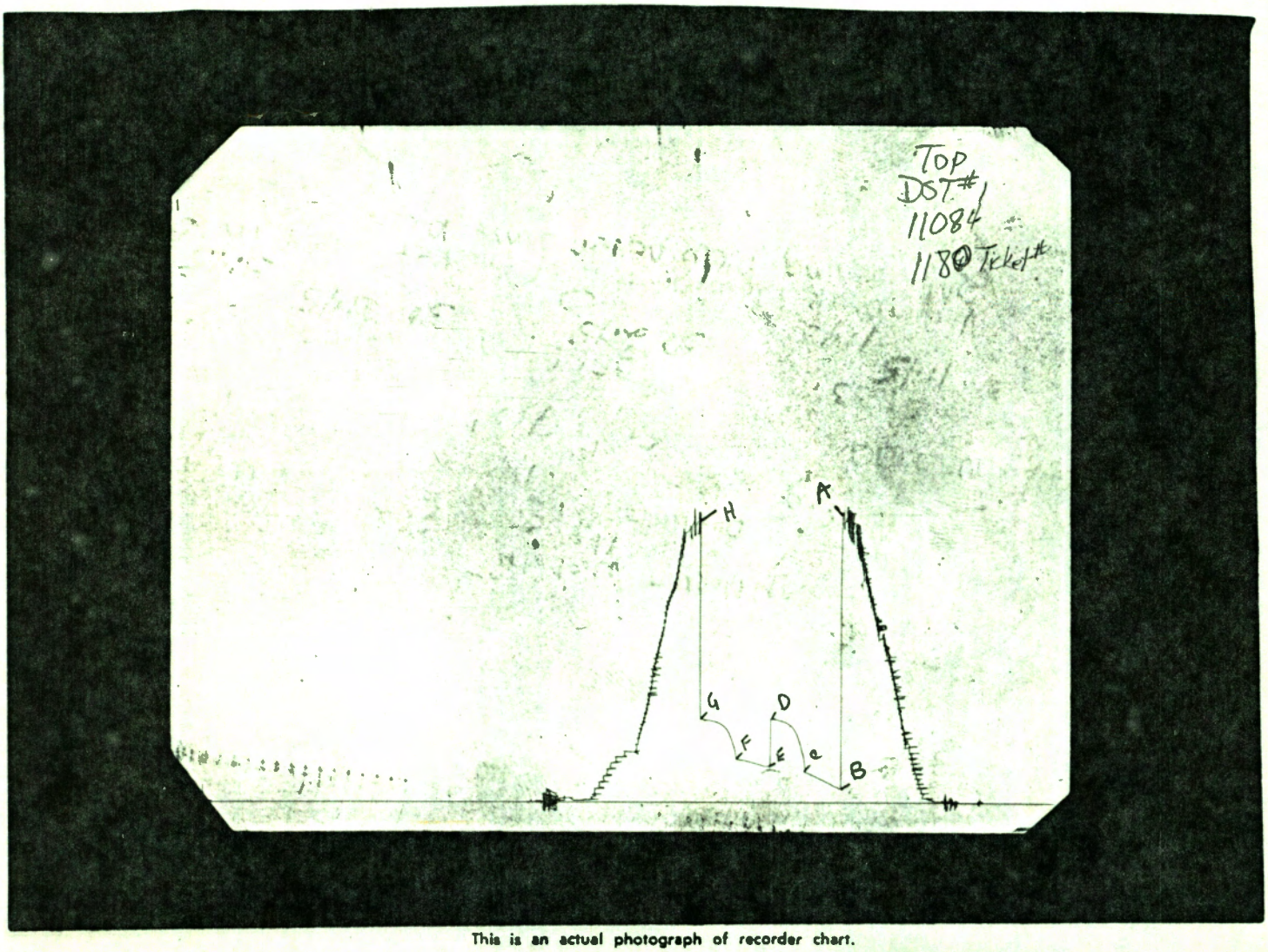
Recovery
Total Feet 600
Recovered 600 Ft. of Heavy gassy oil cut mud - to -
Recovered ____ Ft. of Heavy gassy mud cut oil.
Recovered ____ Ft. of ____
Recovered ____ Ft. of ____
Recovered ____ Ft. of ____
Recovered ____ Ft. of ____
Gravity (Oil) ____ Corrected To Temp. ____ Water Chlorides ____

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,843 Final Hydrostatic Pressure 1,821
Initial Closed In Pressure 537 Final Closed In Pressure 515
Initial Flow Pressure 77 To 154 Final Flow Pressure 208 To 252
Test Area Temperature 110

Engineering Date
Elevation 2,221 K. B.
Mud Viscosity 42 Mud Weight 9.4 Water Loss 19.4
Chlorides 41,000 P.P.M. Type of Mud Starch Anchor Length 54
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,703 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.
Drill Collar Length ____ I.D. ____ In.
Top Packer Depth. ____ Bottom Packer Depth. 3,480 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.
Extra Equipment None
Remarks Single Conventional packer run.
Open Hole Test - $660.00

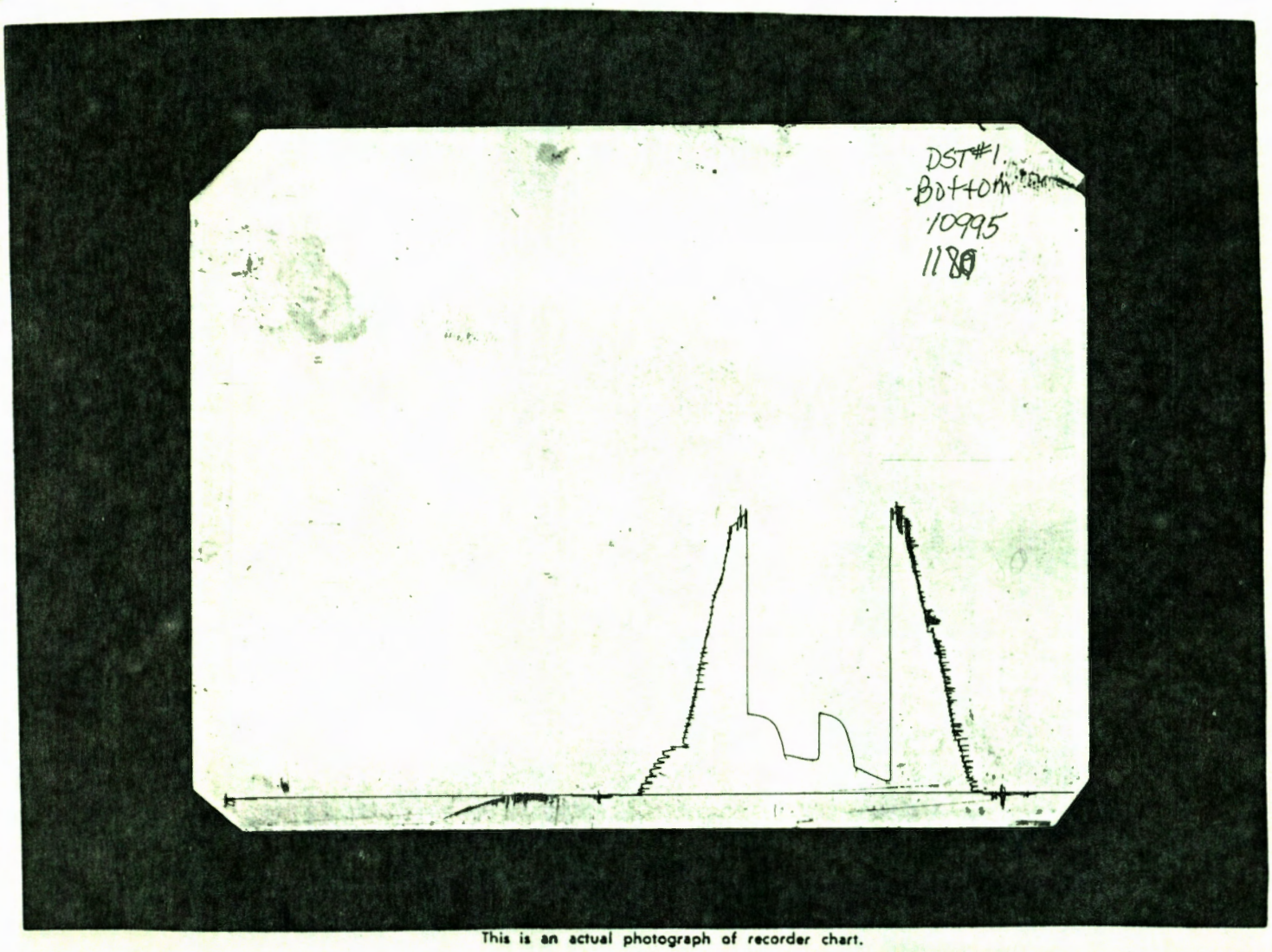
Thank-you

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,843	1,857	PSI
(B)	First Initial Flow Pressure	77	89	PSI
(C)	First Final Flow Pressure	154	195	PSI
(D)	Initial Closed-in Pressure	537	538	PSI
(E)	Second Initial Flow Pressure	208	233	PSI
(F)	Second Final Flow Pressure	252	280	PSI
(G)	Final Closed-in Pressure	515	537	PSI
(H)	Final Hydrostatic Mud	1,821	1,806	PSI



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POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/07/81 Test Ticket No. 1180

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,524 Ft.

Clock No. #23934 Elevation 2,221 K. B. Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1,857	P.S.I.
B	First Initial Flow Pressure	89	P.S.I.
C	First Final Flow Pressure	195	P.S.I.
D	Initial Closed-in Pressure	538	P.S.I.
E	Second Initial Flow Pressure	233	P.S.I.
F	Second Final Flow Pressure	280	P.S.I.
G	Final Closed-in Pressure	537	P.S.I.
H	Final Hydrostatic Mud	1,806	P.S.I.

	Field Time	Time Computed
Open Tool	9:00 PM	
First Flow Pressure	30 Mins.	Mins.
Initial Closed-in Pressure	30 Mins.	Mins.
Second Flow Pressure	30 Mins.	Mins.
Final Closed-in Pressure	30 Mins.	Mins.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 00	89	00	195	00	233	00	280
P 2 05	103	05	370	05	236	05	456
P 3 10	125	10	468	10	247	10	500
P 4 15	142	15	506	15	257	15	519
P 5 20	161	20	524	20	268	20	529
P 6 25	179	25	534	25	275	25	533
P 7 30	195	30	538	30	280	30	537
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

DRILL STEM TEST RECOVERY ANALYSIS

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

COMPANY: A. Scott Ritchie LEASE: Bucholz #B-2 DST# 1
SEC: 7 Twp: 11 Rge: 22 COUNTY: Trego STATE: Kansas

VISUAL DST RECOVERY: Heavy gassy oil cut mud to heavy gassy mud cut oil.

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	60	20	10	10	60
2	60	30	30	15	25
3	60	30	30	20	20
4	60	30	30	20	20
5	60	40	60	15	5
6	60	0	85	5	10
7	60	0	90	8	2
8	60	15	75	8	2
9	60	15	70	13	2
10	60	10	70	10	10

CALCULATED FLUID RECOVERY FROM PERCENTAGES

(Formula for Calculation)

Percent of individual fluid × Total footage represented in sample

SAMPLE #	TOTAL FOOTAGE	GAS %	×	Total	=	Feet	OIL %	×	Total	=	Feet	WATER %	×	Total	=	Feet	MUD %	×	Total	=	Feet
1	60	20	×	60	=	12	10	×	60	=	6	10	×	60	=	6	60	×	60	=	36
2	60	30	×	60	=	18	30	×	60	=	18	15	×	60	=	9	25	×	60	=	15
3	60	30	×	60	=	18	30	×	60	=	18	20	×	60	=	12	20	×	60	=	12
4	60	30	×	60	=	18	30	×	60	=	18	20	×	60	=	12	20	×	60	=	12
5	60	40	×	60	=	24	60	×	60	=	36	15	×	60	=	9	5	×	60	=	3
6	60	0	×	60	=	0	85	×	60	=	51	5	×	60	=	3	10	×	60	=	6
7	60	0	×	60	=	0	90	×	60	=	54	8	×	60	=	4.8	2	×	60	=	1.2
8	60	15	×	60	=	9	75	×	60	=	45	8	×	60	=	4.8	2	×	60	=	1.2
9	60	15	×	60	=	9	70	×	60	=	42	13	×	60	=	7.8	2	×	60	=	1.2
10	60	10	×	60	=	6	70	×	60	=	42	10	×	60	=	6	10	×	60	=	6
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals						114					330					74.4					93.6

CALCULATED DST RECOVERY =

CHLORIDES MUD SYSTEM 41,000
CHLORIDES DST WATER
GRAVITY OF OIL

GAS 114
OIL 330
WTR 74.4
MUD 93.6
TOTAL FLUID 600'

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

CRUDE OIL TESTING INC.

Test Ticket No. 1181

Company A. Scott Ritchie Date 6/08/81

Company Address 125 N. Market Suite 950 - Wichita No. of Charts 5

Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas

Well Name And Number Bucholz #B-2 Tester Bud O'Dell

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone 50' & 70' Type of Test Conventional

DST# 2

Interval 3,533 To 3,566 Total Depth 3,566

Open 30 - 1:45 Shut In 30 - 2:15 A.M. P.M. Open 30 - 2:45 Shut In 30 - 3:15 A.M. P.M.

Packer(s) Set 1:43 A.M. P.M. Started off Bottom 3:45 A.M. P.M.

Blow 1st Open: Very weak blow on top of bucket died in 5 min.

2nd Open: Blow never came back.

Recovery

Total Feet 30

Recovered 30 Ft. of Oil specked mud.

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides _____

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure 1,886 Final Hydrostatic Pressure 1,864

Initial Closed In Pressure 634 Final Closed In Pressure 580

Initial Flow Pressure 44 To 44 Final Flow Pressure 55 To 55

Test Area Temperature 115

Engineering Date

Elevation 2,221 K. B.

Mud Viscosity 45 Mud Weight 9.4 Water Loss 14.2

Chlorides 38,000 P.P.M. Type of Mud Starch Anchor Length 33

Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4

Drill Pipe Length 2,734 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. _____ Bottom Packer Depth. 3,533 Packer Size 6 3/4

Test Tool Size 5½ In. Tool Joint Size 4½ FH In.

Did Well Flow No Reversed Out No

Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.

Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.

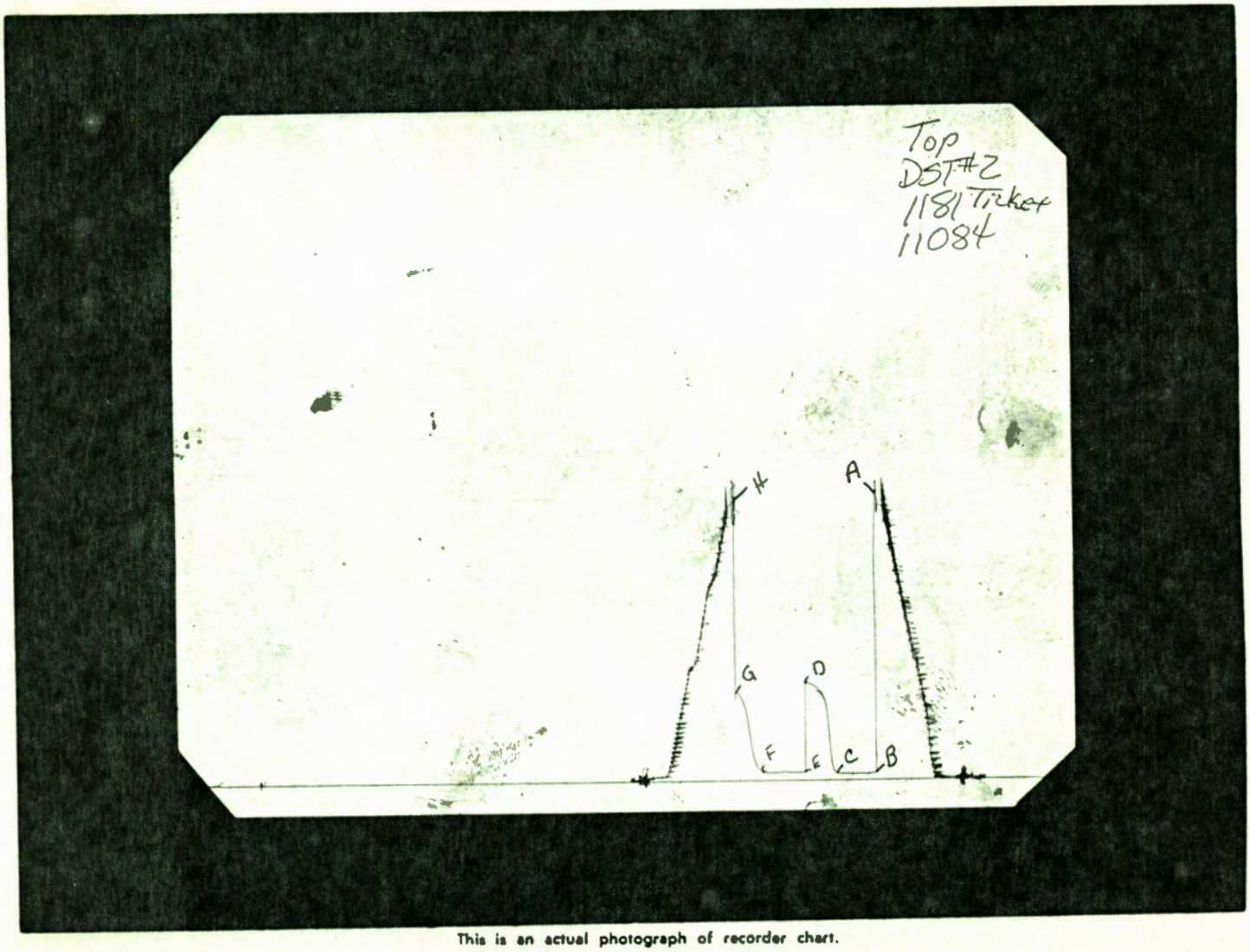
Extra Equipment None

Remarks Single Conventional packer run.

Open Hole Test - $660.00

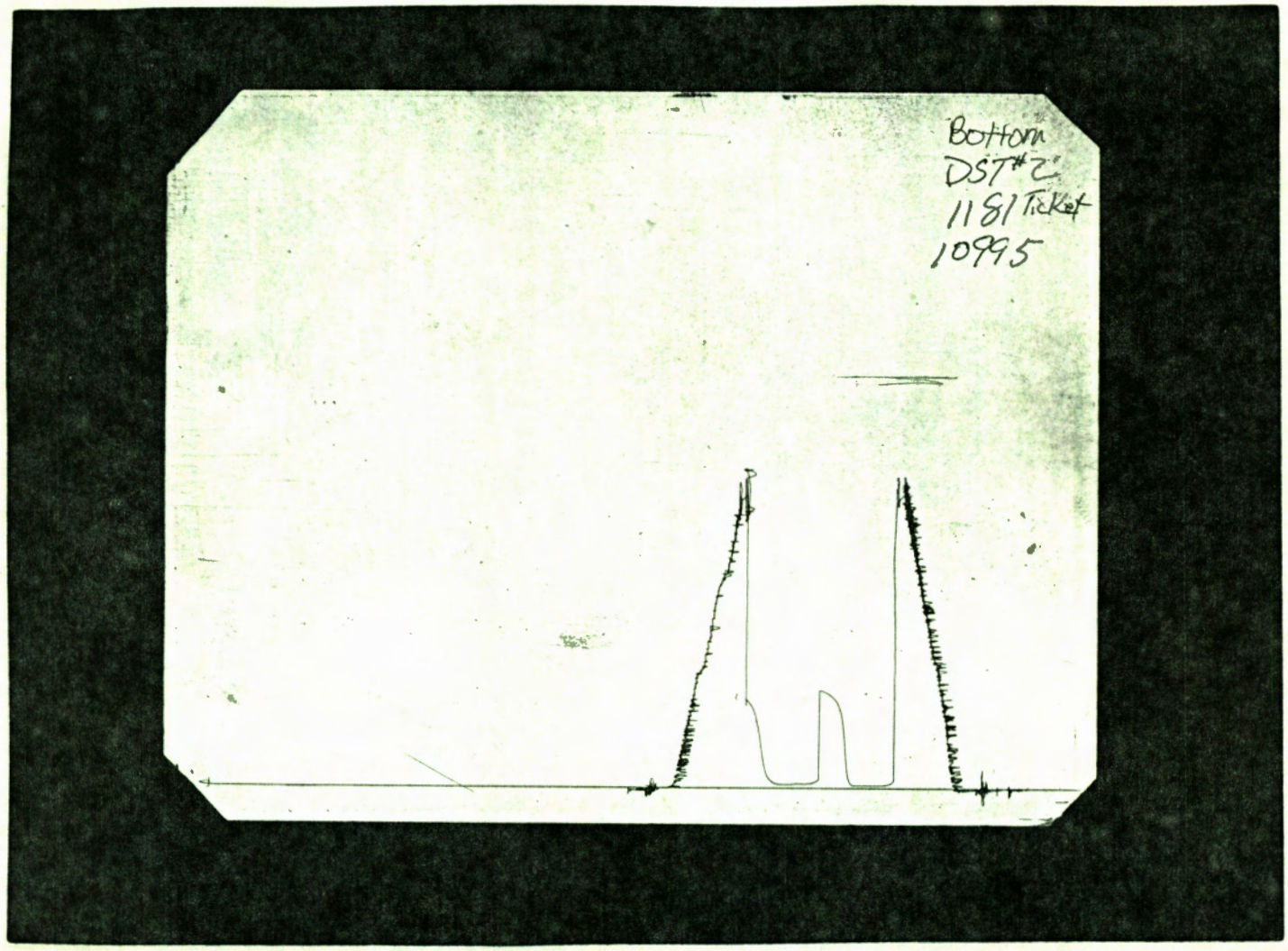
Thank-you

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,886	1,862	PSI
(B)	First Initial Flow Pressure	44	25	PSI
(C)	First Final Flow Pressure	44	41	PSI
(D)	Initial Closed-in Pressure	634	632	PSI
(E)	Second Initial Flow Pressure	55	35	PSI
(F)	Second Final Flow Pressure	55	49	PSI
(G)	Final Closed-in Pressure	580	574	PSI
(H)	Final Hydrostatic Mud	1,864	1,812	PSI



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POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/08/81 Test Ticket No. 1181

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,556 Ft.

Clock No. #23934 Elevation 2,221 K. B. Well Temperature 115 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,862 P.S.I.		Open Tool	1:45 PM	
B	First Initial Flow Pressure	25 P.S.I.		First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	41 P.S.I.		Initial Closed-in Pressure	30 Mins.	Mins.
D	Initial Closed-in Pressure	632 P.S.I.		Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	35 P.S.I.		Final Closed-in Pressure	30 Mins.	Mins.
F	Second Final Flow Pressure	49 P.S.I.				
G	Final Closed-in Pressure	574 P.S.I.				
H	Final Hydrostatic Mud	1,812 P.S.I.				

PRESSURE BREAKDOWN

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	00	25	00	41	00	35	00	49
P 2	05	28	05	58	05	36	05	58
P 3	10	29	10	373	10	38	10	85
P 4	15	32	15	549	15	41	15	229
P 5	20	35	20	596	20	43	20	449
P 6	25	38	25	621	25	46	25	546
P 7	30	41	30	632	30	49	30	574
P 8								
P 9								
P10								
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TEST REPORT

CRUDE OIL TESTING INC.
(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 1182

Company A. Scott Ritchie Date 6/09/81

Company Address 125 N. Market Suite 950 - Wichita No. of Charts 5

Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas

Well Name And Number Bucholz #B-2 Tester Bud O'Dell

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone 90' & top of 100' Type of Test Conventional

DST# 3 Interval 3,572 To 3,605 Total Depth 3,605

Open _____ Shut In _____ Open _____ Shut In _____

Packer(s) Set _____ A.M. P.M. Started off Bottom _____ A.M. P.M.

Blow _____

Recovery

Total Feet 260

Recovered 260 Ft. of Mud. (MISRUN)

Recovered _____ Ft. of _____ (PACKER FAILURE)

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides _____

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure _____ Final Hydrostatic Pressure _____

Initial Closed In Pressure _____ Final Closed In Pressure _____

Initial Flow Pressure _____ To _____ Final Flow Pressure _____ To _____

Test Area Temperature _____

Engineering Date

Elevation 2,221 K. B.

Mud Viscosity 45 Mud Weight 9.4 Water Loss 14.2

Chlorides 38,000 P.P.M. Type of Mud Starch Anchor Length 33

Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4

Drill Pipe Length _____ I.D. _____ In. Weight Pipe Length 635 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. 3,572 Bottom Packer Depth. _____ Packer Size 6 3/4

Test Tool Size 5½ In. Tool Joint Size 4½ FH In.

Did Well Flow _____ Reversed Out _____

Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.

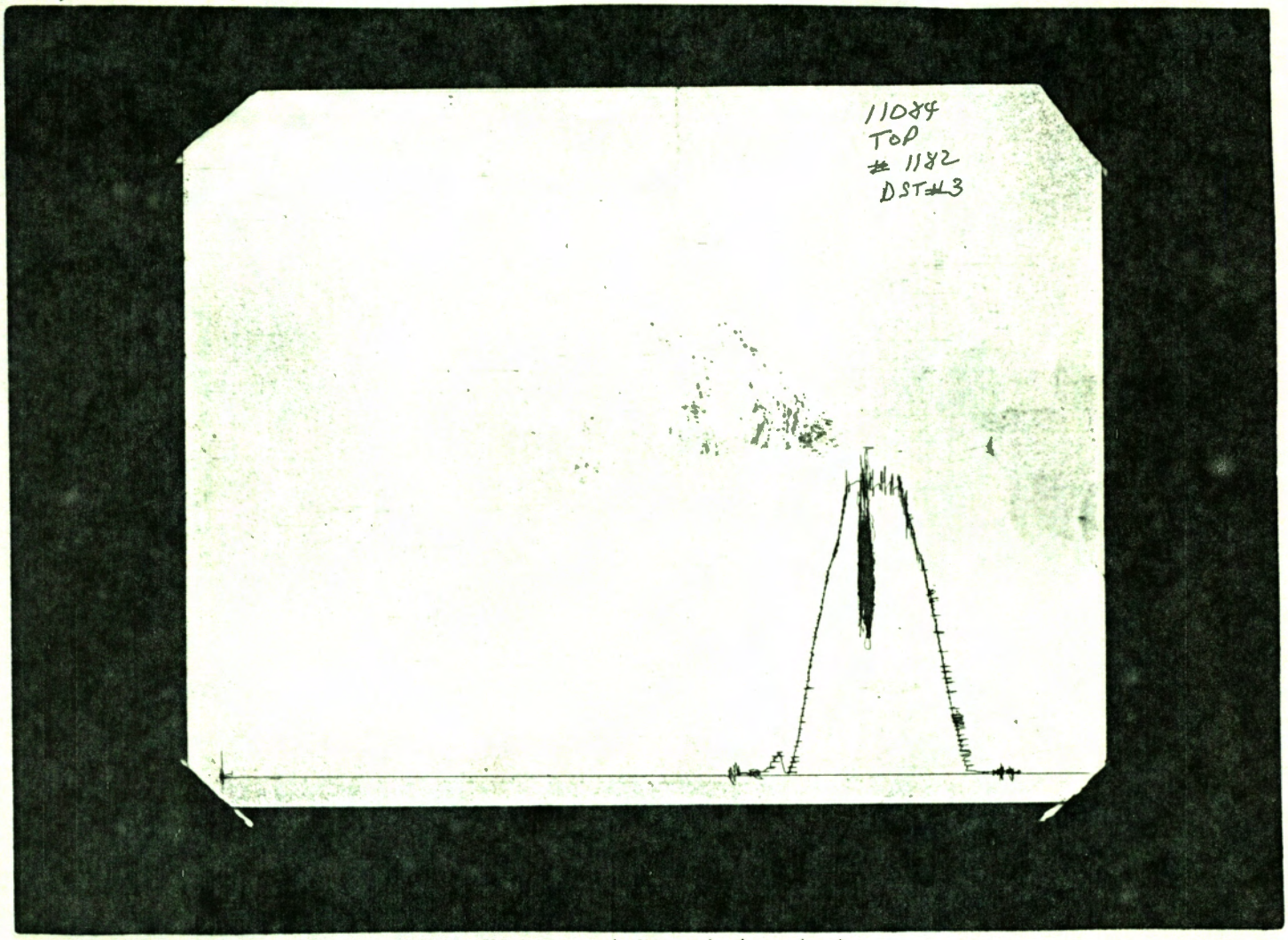
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.

Extra Equipment None

Remarks Single Conventional packer run.
(MISRUN) packer failure. Open Hole Test - $350.00

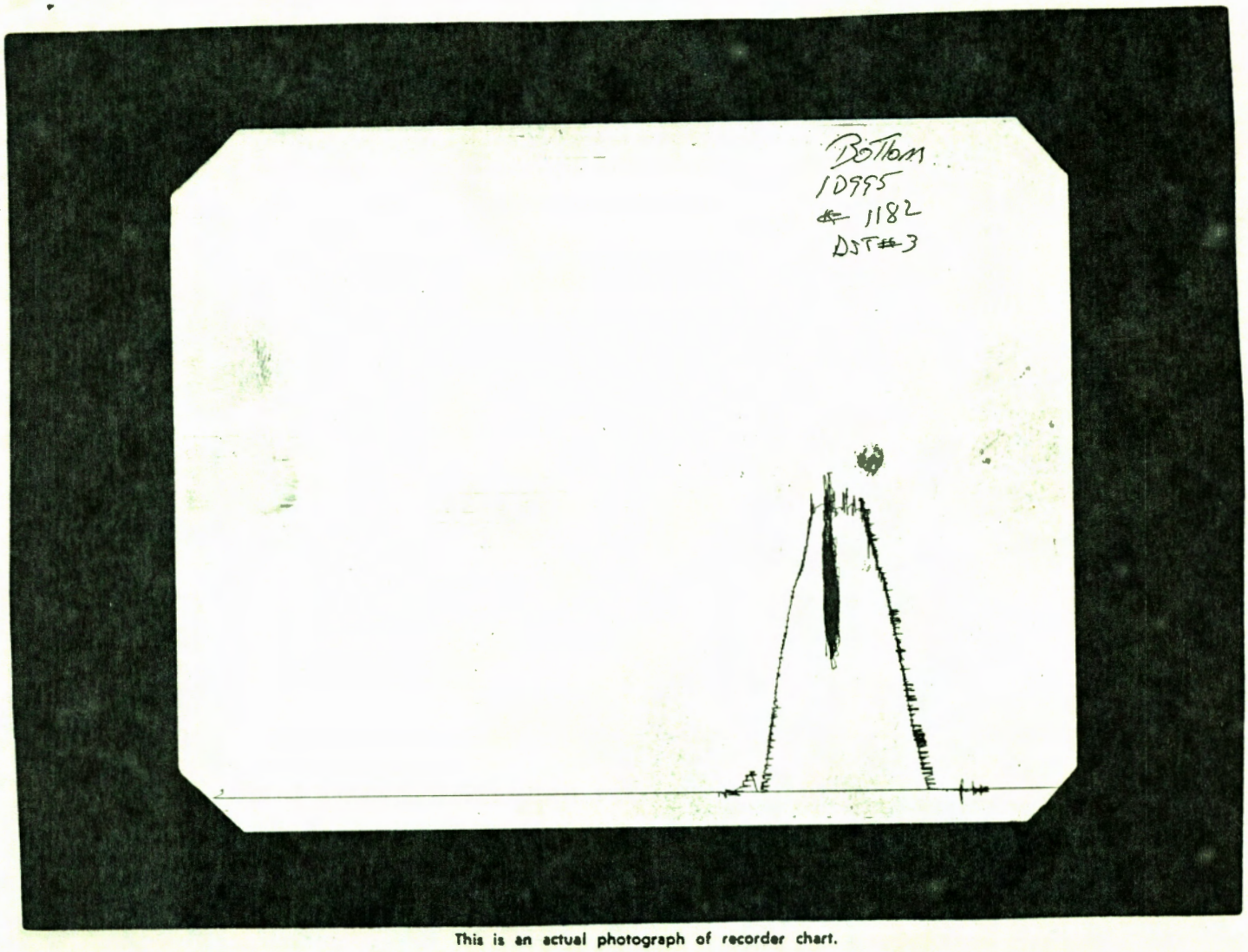
Thank-you

Price of Job $350.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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



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POINT		PRESSURE Field Reading	Office Reading
(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

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

CRUDE OIL TESTING INC.

Test Ticket No. 1183

Company A. Scott Ritchie Date 6/09/81

Company Address 125 N. Market Suite 950- Wichita No. of Charts 5

Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas

Well Name And Number Bucholz #B-2 Tester Bud O'Dell

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone 90' & top of 100' Type of Test Conventional

DST# 4

Interval 3,563 To 3,605 Total Depth 3,605

Open 30 - 8:15 Shut In 45 - 8:45 Open 30 - 9:30 Shut In 45 - 10:00

Packer(s) Set 8:13 AM Started off Bottom 10:45 AM

Blow 1st Open: Steady blow, 2" in bucket.

2nd Open: Weak steady blow on top of bucket.

Recovery

Total Feet 70

Recovered 70 Ft. of Slightly oil cut mud.

Recovered 120 Ft. of Gas in pipe.

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides 40,000 PPM

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure 1,864 Final Hydrostatic Pressure 1,843

Initial Closed In Pressure 548 Final Closed In Pressure 482

Initial Flow Pressure 66 To 66 Final Flow Pressure 66 To 66

Test Area Temperature 112

Engineering Date

Elevation 2,221 K. B.

Mud Viscosity 45 Mud Weight 9.4 Water Loss 14.2

Chlorides 38,000 P.P.M. Type of Mud Starch Anchor Length 42

Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4

Drill Pipe Length 2,928 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. 3,563 Bottom Packer Depth. _____ Packer Size 6 3/4

Test Tool Size 5½ In. Tool Joint Size 4½ FH In.

Did Well Flow No Reversed Out No

Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.

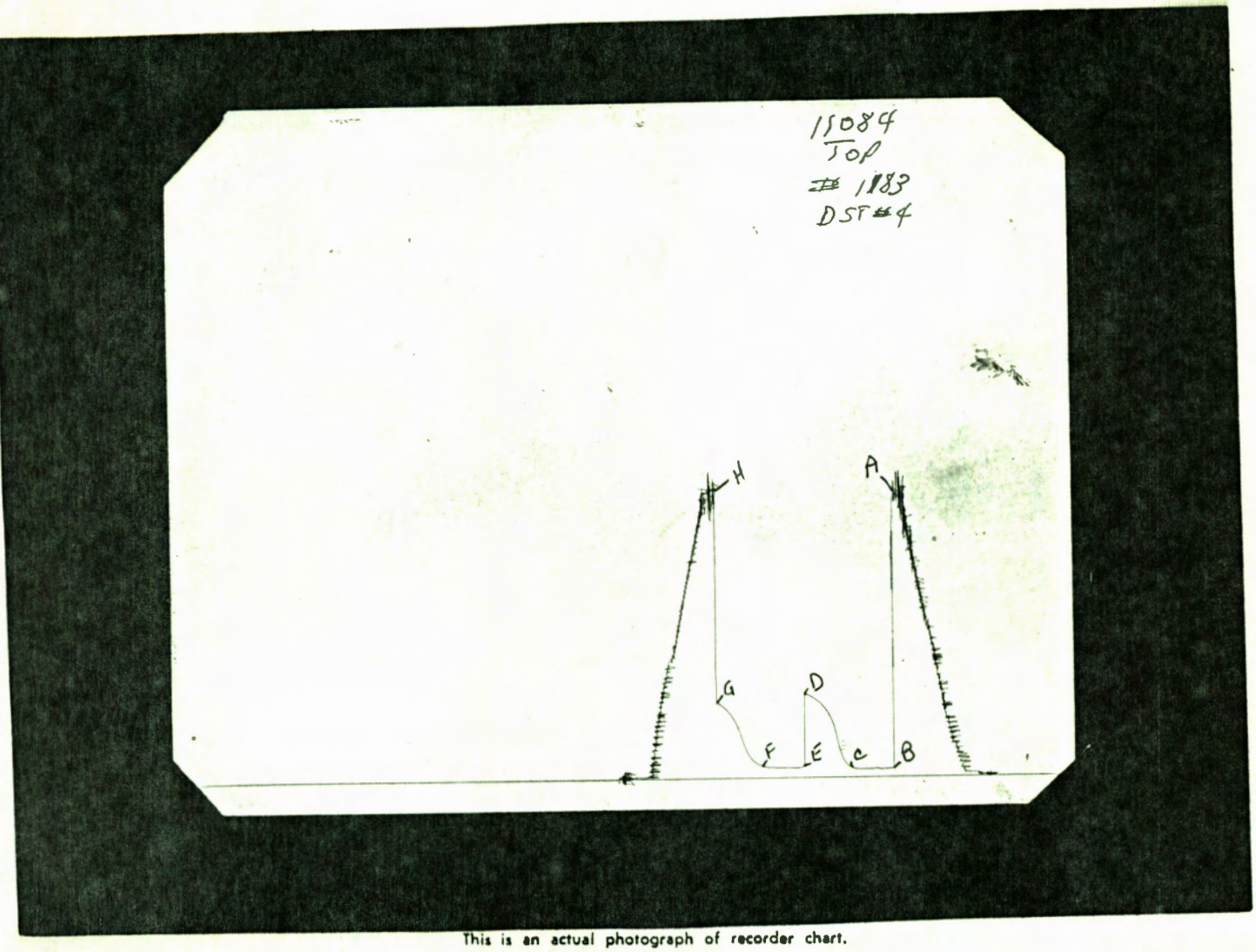
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.

Extra Equipment None

Remarks Single packer run. Open Hole Test - $660.00

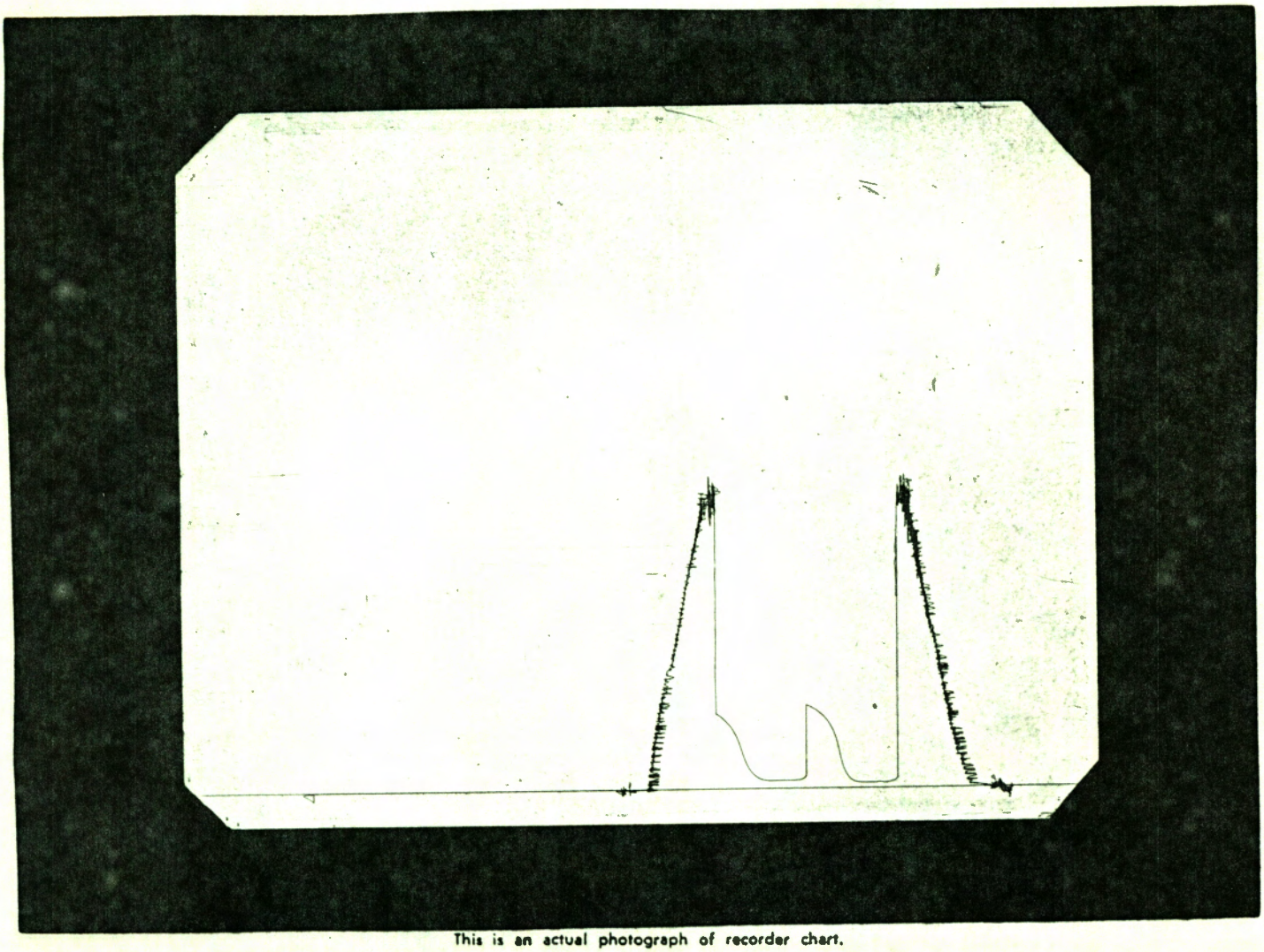
Thank-you

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,864	1,867	PSI
(B)	First Initial Flow Pressure	66	40	PSI
(C)	First Final Flow Pressure	66	53	PSI
(D)	Initial Closed-in Pressure	548	546	PSI
(E)	Second Initial Flow Pressure	66	52	PSI
(F)	Second Final Flow Pressure	66	66	PSI
(G)	Final Closed-in Pressure	482	493	PSI
(H)	Final Hydrostatic Mud	1,843	1,856	PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/09/81 Test Ticket No. 1183

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,595 Ft.

Clock No. #23934 Elevation 2,221 K. B. Well Temperature 112 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,867	P.S.I.	Open Tool	8:15 A M	
B	First Initial Flow Pressure	40	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	53	P.S.I.	Initial Closed-in Pressure	45 Mins.	Mins.
D	Initial Closed-in Pressure	546	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	52	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	66	P.S.I.			
G	Final Closed-in Pressure	493	P.S.I.			
H	Final Hydrostatic Mud	1,856	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 9 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 9 Inc. of 5 mins. and a final inc. of ____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 00	40	00	53	00	52	00	66
P 2 05	41	05	60	05	54	05	75
P 3 10	42	10	89	10	58	10	93
P 4 15	43	15	176	15	60	15	130
P 5 20	47	20	334	20	62	20	210
P 6 25	50	25	418	25	65	25	318
P 7 30	53	30	470	30	66	30	391
P 8		35	504			35	443
P 9		40	530			40	475
P10		45	546			45	493
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

DRILL STEM TEST RECOVERY ANALYSIS

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

COMPANY: A. Scott Ritchie LEASE: Bucholz #B-2 DST# 4
SEC: 7 Twp: 11 Rge: 22 COUNTY: Trego STATE: Kansas

VISUAL DST RECOVERY:

70' Oil cut mud.
120' Gas in pipe.

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	10	42	18	20	20
2	60	25	5	28	42

CALCULATED FLUID RECOVERY FROM PERCENTAGES

(Formula for Calculation)

Percent of individual fluid × Total footage represented in sample

SAMPLE #	TOTAL FOOTAGE	GAS %	×	Total	=	Feet	OIL %	×	Total	=	Feet	WATER %	×	Total	=	Feet	MUD %	×	Total	=	Feet
1	10	42	×	10	=	4.2	18	×	10	=	1.8	20	×	10	=	2	20	×	10	=	2
2	60	25	×	60	=	15	5	×	60	=	3	28	×	60	=	16.8	42	×	60	=	25.2
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
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			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals						19.2					4.8					18.8					27.2

CALCULATED DST RECOVERY =

CHLORIDES MUD SYSTEM	38,000 PPM	GAS	19.2
CHLORIDES DST WATER	40,000 PPM	OIL	4.8
GRAVITY OF OIL		WTR	18.8
		MUD	27.2
		TOTAL FLUID	70'

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

CRUDE OIL TESTING INC.

Test Ticket No. 1184

Company A. Scott Ritchie Date 6/10/81
Company Address 125 N. Market Suite 950- Wichita No. of Charts 5
Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas
Well Name And Number Bucholz #B-2 Tester Bud O'Dell
Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone 140' - 160' - 180' Type of Test Conventional

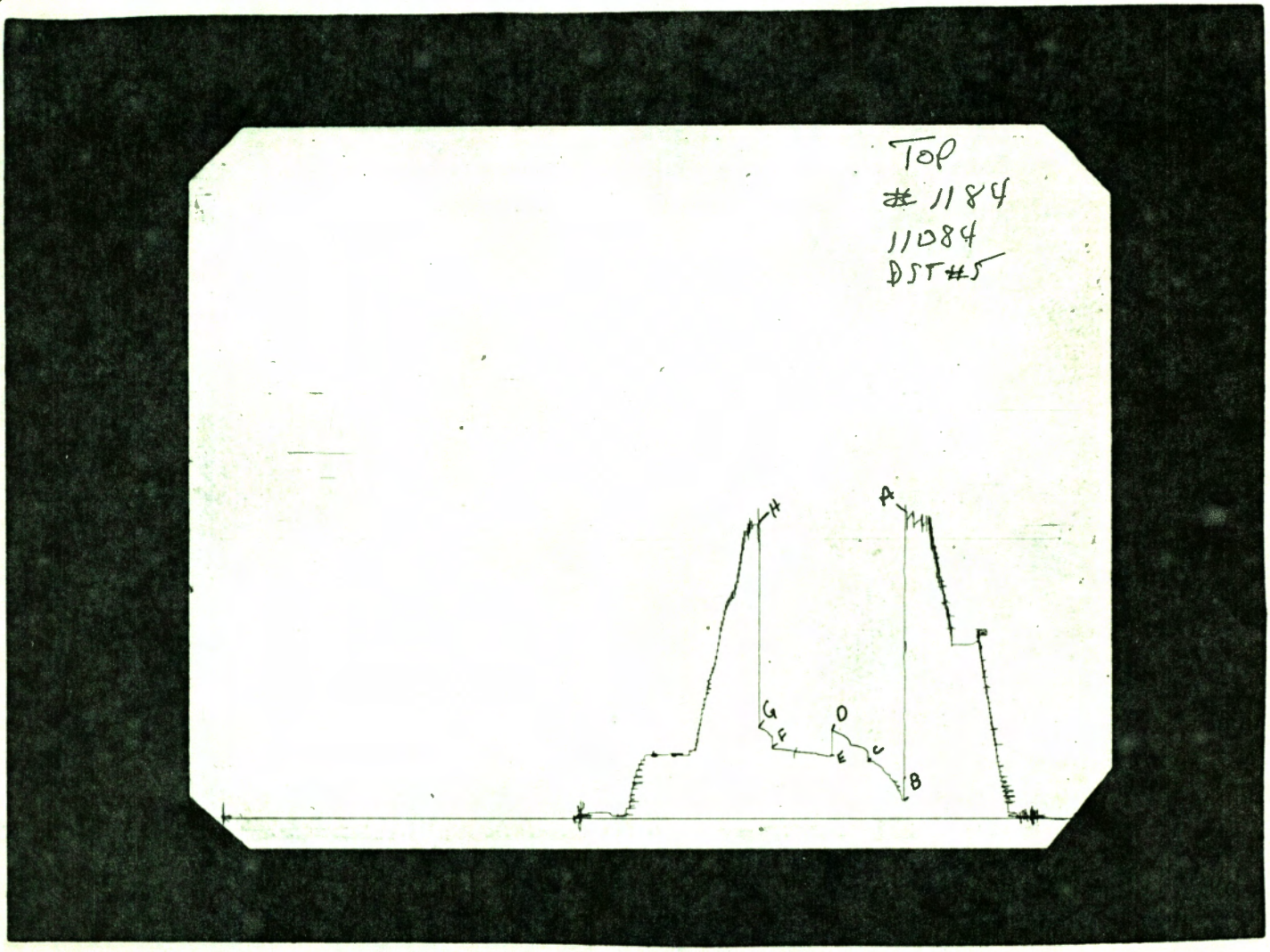
DST# 5 Interval 3,605 To 3,668 Total Depth 3,668
Open 30 - 1:15 Shut In 30 - 1:45 Open 30 - 2:15 Shut In 30 - 2:45
Packer(s) Set 1:13 AM Started off Bottom 3:15 AM
Blow 1st Open: Blew off bottom in 3 min., good steady blow.
2nd Open: Good steady blow throughout opening.

Recovery
Total Feet 960
Recovered 960 Ft. of Muddy water to water.
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Gravity (Oil) Corrected To Temp. Water Chlorides 53,000 PPM

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 2,037 Final Hydrostatic Pressure 2,015
Initial Closed In Pressure 570 Final Closed In Pressure 580
Initial Flow Pressure 110 To 362 Final Flow Pressure 395 To 417
Test Area Temperature 122

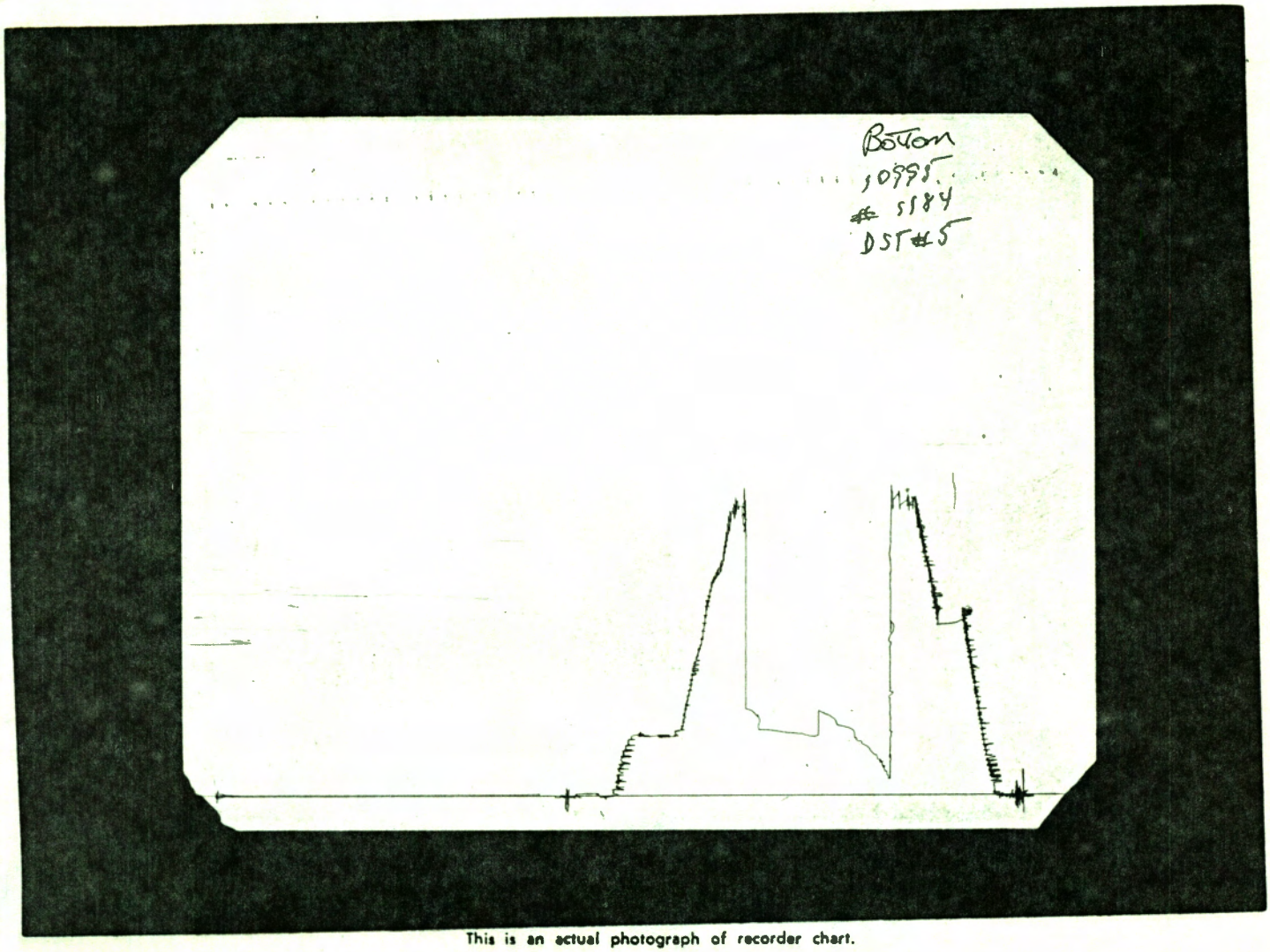
Engineering Date
Elevation 2,221 K. B.
Mud Viscosity 41 Mud Weight 9.4 Water Loss 13.2
Chlorides 33,000 P.P.M. Type of Mud Starch Anchor Length 63
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,970 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.
Drill Collar Length I.D. In.
Top Packer Depth. 3,605 Bottom Packer Depth. Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ FH In.
Did Well Flow No Reversed Out Yes
Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.
Extra Equipment Single Conventional packer run.
Remarks (Dropped bar to reverse fluid) - $30.00
Open Hole Test - $660.00

Thank-you Price of Job $690.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,037	1,931	PSI
(B)	First Initial Flow Pressure	110	114	PSI
(C)	First Final Flow Pressure	362	373	PSI
(D)	Initial Closed-in Pressure	570	554	PSI
(E)	Second Initial Flow Pressure	395	393	PSI
(F)	Second Final Flow Pressure	417	441	PSI
(G)	Final Closed-in Pressure	580	570	PSI
(H)	Final Hydrostatic Mud	2,015	1,845	PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/10/81 Test Ticket No. 1184

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,658 Ft.

Clock No. #23934 Elevation 2,221.K. B. Well Temperature 122 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,931 P.S.I.	Open Tool		1:15 AM	
B	First Initial Flow Pressure	114 P.S.I.	First Flow Pressure		30 Mins.	Mins.
C	First Final Flow Pressure	373 P.S.I.	Initial Closed-in Pressure		30 Mins.	Mins.
D	Initial Closed-in Pressure	554 P.S.I.	Second Flow Pressure		30 Mins.	50 Mins.
E	Second Initial Flow Pressure	393 P.S.I.	Final Closed-in Pressure		30 Mins.	10 Mins.
F	Second Final Flow Pressure	441 P.S.I.				
G	Final Closed-in Pressure	570 P.S.I.				
H	Final Hydrostatic Mud	1,845 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Initial Shut-In
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Second Flow Pressure
Breakdown: 10 Inc. of 5 mins. and a final inc. of ____ Min.

Final Shut-In
Breakdown: 2 Inc. of 5 mins. and a final inc. of ____ Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	00	114		00	373		00	393		00	441
P 2	05	176		05	447		05	397		05	555
P 3	10	245		10	459		10	403		10	570
P 4	15	283		15	474		15	412			
P 5	20	328		20	520		20	415			
P 6	25	355		25	537		25	419			
P 7	30	373		30	554		30	424			
P 8							35	430			
P 9							40	435			
P10							45	438			
P11							50	441			
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											

TEST REPORT

CRUDE OIL TESTING INC.
(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 1235

Company A. Scott Ritchie Date 6/10/81
Company Address 125 N. Market Suite 950 - Wichita No. of Charts 5
Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas
Well Name And Number Bucholz #B-2 Tester Bud O'Dell
Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Lansing Zone 200' & 220' Type of Test Conventional

DST# 6
Interval 3,670 To 3,717 Total Depth 3,717
Open 30 - 7:00 Shut In 45 - 7:45 Open 30 - 8:15 Shut In 45 - 8:45
Packer(s) Set 6:58 ~~A.M.~~ P.M. Started off Bottom 9:30 ~~A.M.~~ P.M.
Blow Fair steady blow, 6" in bucket both flow periods.

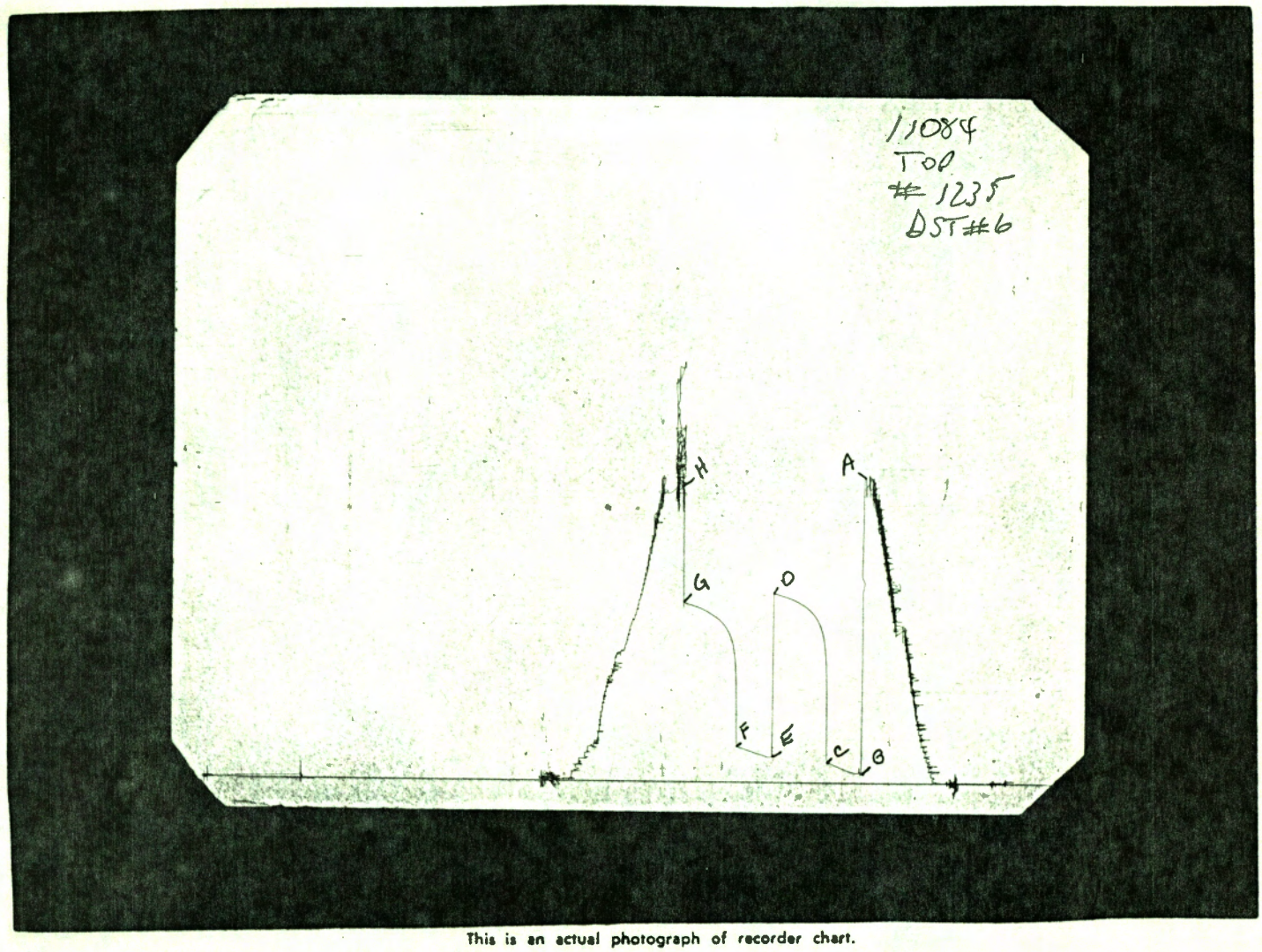
Recovery
Total Feet 360
Recovered 360 Ft. of Muddy water.
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides 39,000 PPM

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,950 Final Hydrostatic Pressure 1,939
Initial Closed In Pressure 1,206 Final Closed In Pressure 1,142
Initial Flow Pressure 54 To 131 Final Flow Pressure 164 To 230
Test Area Temperature 121

Engineering Date
Elevation 2,221 K. B.
Mud Viscosity 39 Mud Weight 9.4 Water Loss 14.4
Chlorides 28,000 P.P.M. Type of Mud Starch Anchor Length 47
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,864 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.
Drill Collar Length _____ I.D. _____ In.
Top Packer Depth. _____ Bottom Packer Depth. 3,670 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ FH In.
Did Well Flow No Reversed Out _____
Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.
Extra Equipment None
Remarks Single Conventional packer used.
Open Hole Test - $660.00

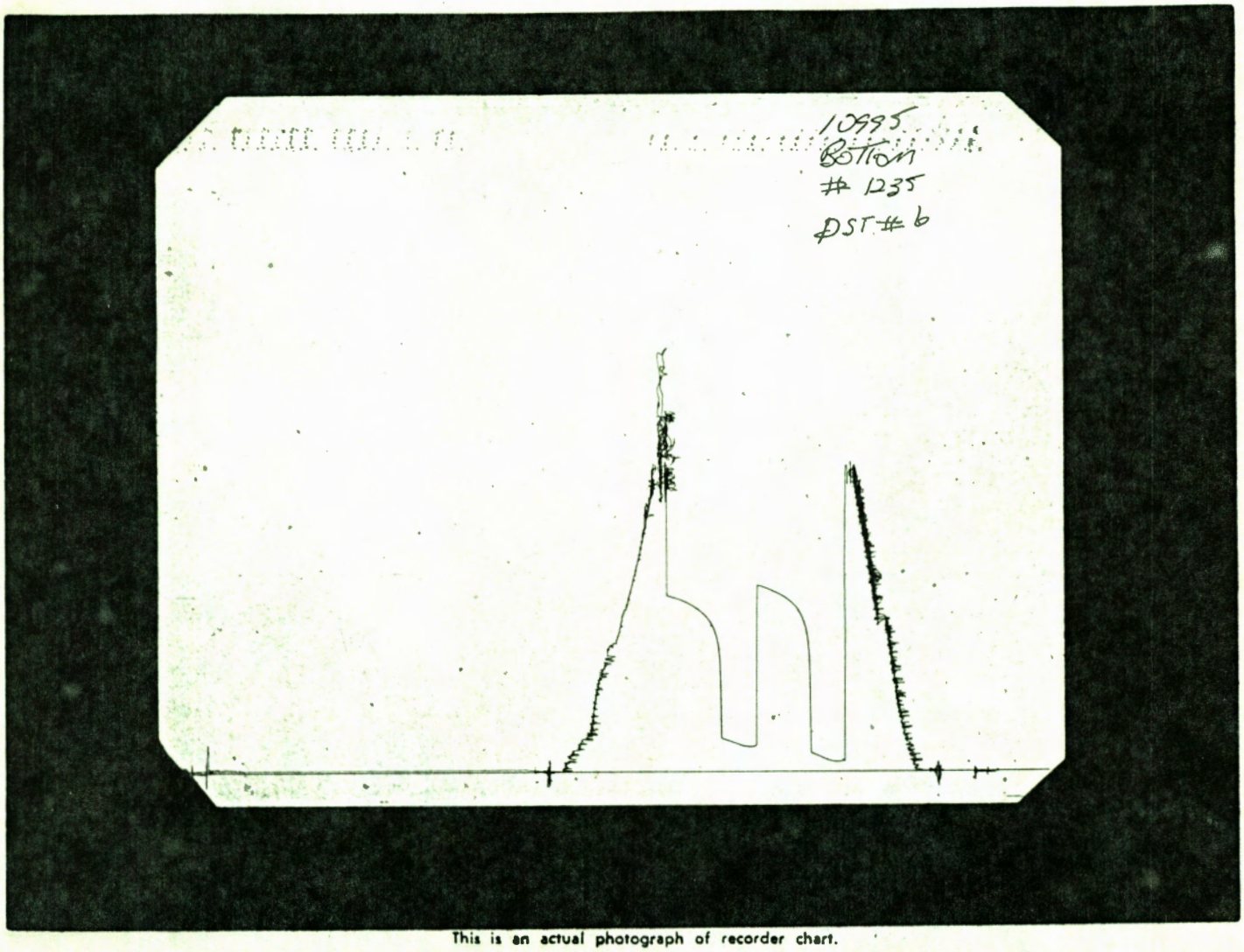
Thank-you

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,950	1,950	PSI
(B)	First Initial Flow Pressure	54	52	PSI
(C)	First Final Flow Pressure	131	129	PSI
(D)	Initial Closed-in Pressure	1,206	1,197	PSI
(E)	Second Initial Flow Pressure	164	157	PSI
(F)	Second Final Flow Pressure	230	224	PSI
(G)	Final Closed-in Pressure	1,142	1,133	PSI
(H)	Final Hydrostatic Mud	1,939	1,880	PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/10/81 Test Ticket No. 1235

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,707 Ft.

Clock No. #23934 Elevation 2,221 K. B. Well Temperature 121 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,950	P.S.I.	Open Tool	7:00 PM	
B	First Initial Flow Pressure	52	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	129	P.S.I.	Initial Closed-in Pressure	45 Mins.	Mins.
D	Initial Closed-in Pressure	1,197	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	157	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	224	P.S.I.			
G	Final Closed-in Pressure	1,133	P.S.I.			
H	Final Hydrostatic Mud	1,880	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 9 Inc.		Breakdown: 6 Inc.		Breakdown: 9 Inc.	
of 5 mins. and a		of 5 mins. and a		of 5 mins. and a		of 5 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 00	52	00	129	00	157	00	224
P 2 05	62	05	958	05	163	05	894
P 3 10	71	10	1,044	10	175	10	976
P 4 15	86	15	1,090	15	186	15	1,021
P 5 20	103	20	1,121	20	200	20	1,049
P 6 25	118	25	1,142	25	214	25	1,075
P 7 30	129	30	1,161	30	224	30	1,093
P 8		35	1,175			35	1,109
P 9		40	1,187			40	1,122
P10		45	1,197			45	1,133
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

DRILL STEM TEST RECOVERY ANALYSIS

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

COMPANY: A. Scott Ritchie LEASE: Bucholz #B-2 DST# 6
SEC: 7 Twp: 11 Rge: 22 COUNTY: Trego STATE: Kansas

VISUAL DST RECOVERY: 360' Muddy water.

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of fluid represented in sample	Percent of OIL	Percent of WATER	Percent of MUD
1	180		25	75
2	180		20	80

CALCULATED FLUID RECOVERY FROM PERCENTAGES

(Formula for Calculation)

Percent of individual fluid x Total footage represented in sample

SAMPLE #	TOTAL FOOTAGE	GAS %	×	Total	=	Feet	OIL %	×	Total	=	Feet	WATER %	×	Total	=	Feet	MUD %	×	Total	=	Feet
1	180		×		=			×		=		25	×	180	=	45	75	×	180	=	135
2	180		×		=			×		=		20	×	180	=	36	80	×	180	=	144
			×		=			×		=			×		=			×		=	
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CALCULATED DST RECOVERY =

CHLORIDES MUD SYSTEM 28,000 PPM
CHLORIDES DST WATER 39,000 PPM
GRAVITY OF OIL

GAS
OIL
WTR 81
MUD 279
TOTAL FLUID 360'

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

CRUDE OIL TESTING INC.

Test Ticket No. 1236

Company A. Scott Ritchie Date 6/11/81
Company Address 125 N. Market Suite 950- Wichita No. of Charts 5
Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas
Well Name And Number Bucholz #B-2 Tester Mitch Dougherty
Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Marmaton Zone _____ Type of Test Conventional

DST# 7

Interval 3,809 To 3,850 Total Depth 3,850
Open 30 - 3:45 Shut In 60 - 4:15 Open 30 - 5:15 Shut In 60 - 5:45
Packer(s) Set 3:43 AM PM Started off Bottom 6:45 AM PM
Blow 1st Open: Good steady blow to 1½" in bucket.
2nd Open: Fair steady blow on top of bucket throughout open.

Recovery

Total Feet 61
Recovered 61 Ft. of Slightly oil cut mud. 90% mud 10% oil Bottom
Recovered _____ Ft. of _____
Recovered 60 Ft. of Gas in pipe.
Recovered _____ Ft. of 40% gas 40% mud 20% oil
Recovered _____ Ft. of Top
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides _____

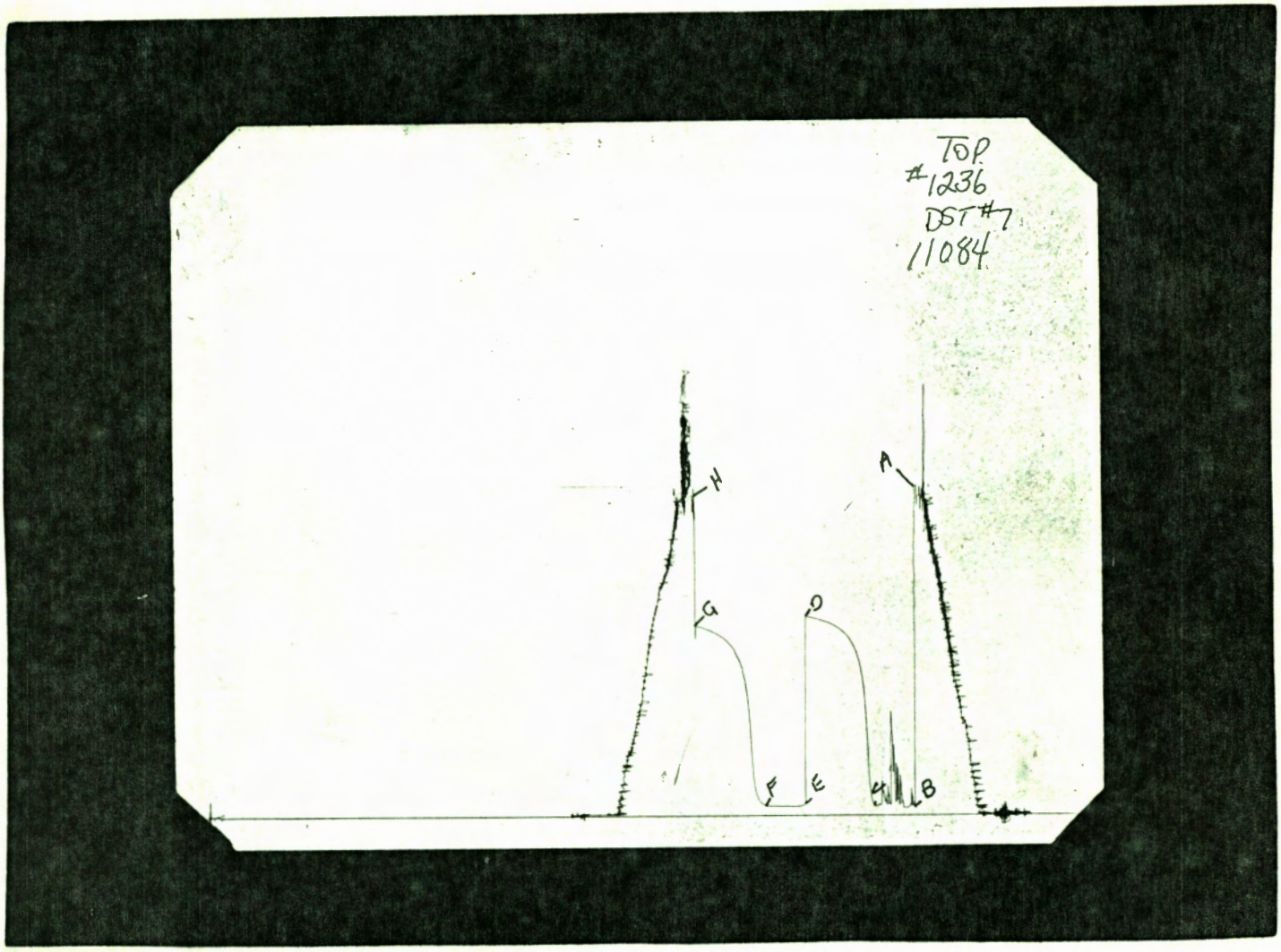
Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure 2,047 Final Hydrostatic Pressure 2,026
Initial Closed In Pressure 1,228 Final Closed In Pressure 1,185
Initial Flow Pressure 55 To 55 Final Flow Pressure 66 To 66
Test Area Temperature 118

Engineering Date

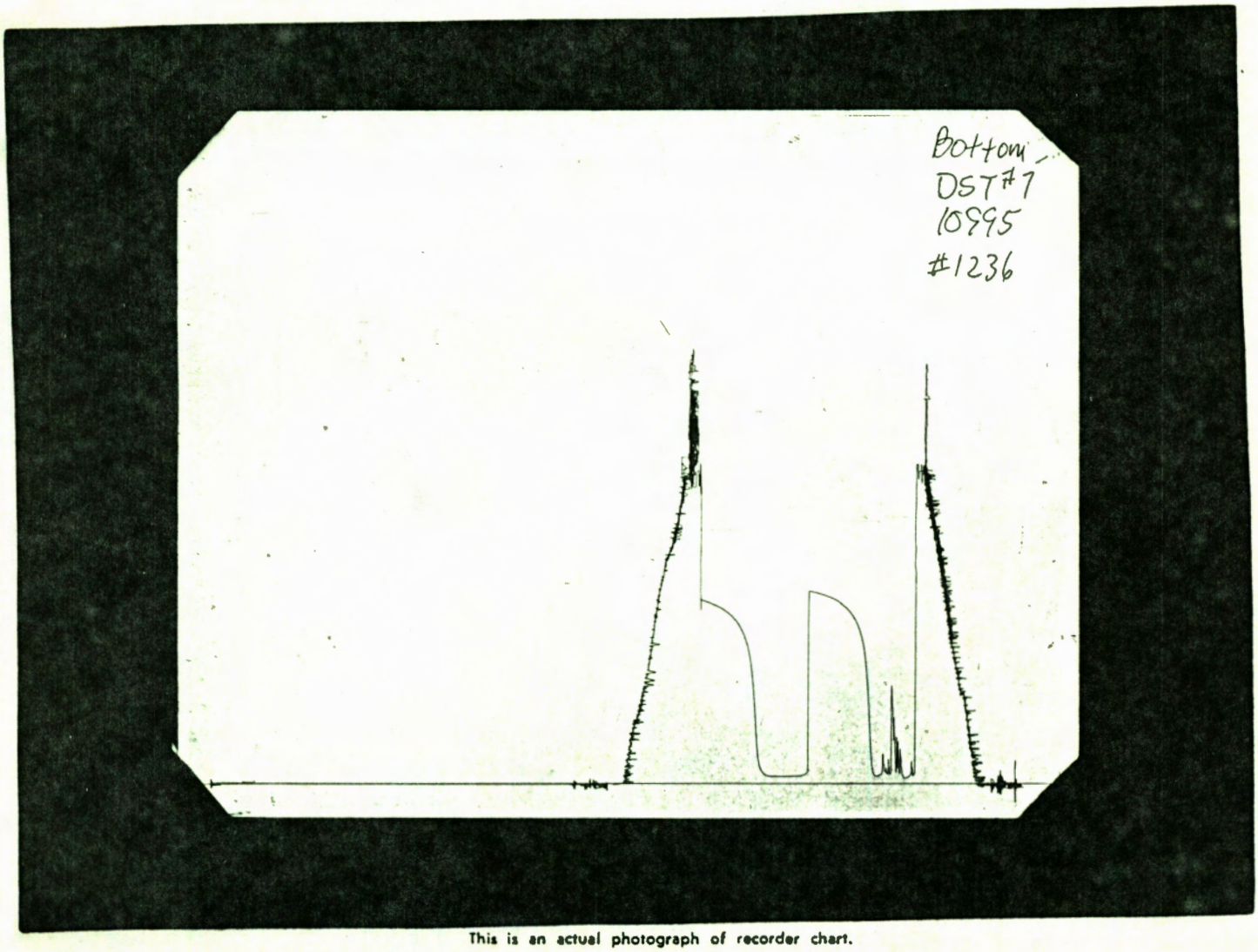
Elevation 2,221 K. B.
Mud Viscosity 44 Mud Weight 9.5 Water Loss 10.4
Chlorides 28,000 P.P.M. Type of Mud Starch Anchor Length 41
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 3,174 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.
Drill Collar Length _____ I.D. _____ In.
Top Packer Depth. _____ Bottom Packer Depth. 3,809 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.
Extra Equipment None
Remarks Single Conventional packer run.
Open Hole Test - $660.00

Thank-you Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,047	2,052	PSI
(B)	First Initial Flow Pressure	55	43	PSI
(C)	First Final Flow Pressure	55	59	PSI
(D)	Initial Closed-in Pressure	1,228	1,235	PSI
(E)	Second Initial Flow Pressure	66	46	PSI
(F)	Second Final Flow Pressure	66	62	PSI
(G)	Final Closed-in Pressure	1,185	1,179	PSI
(H)	Final Hydrostatic Mud	2,026	1,996	PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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

CRUDE OIL TESTING COMPANY

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Date 6/11/81 Test Ticket No. 1236

Recorder No. Kuster AK-1 #11084 Capacity 4,300 PSI Location 3,840 Ft.

Clock No. #23934 Elevation 2,221 K. B. Well Temperature 118 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	2,052	P.S.I.	Open Tool	3:45 AM	
B First Initial Flow Pressure	43	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C First Final Flow Pressure	59	P.S.I.	Initial Closed-in Pressure	60 Mins.	Mins.
D Initial Closed-in Pressure	1,235	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E Second Initial Flow Pressure	46	P.S.I.	Final Closed-in Pressure	60 Mins.	Mins.
F Second Final Flow Pressure	62	P.S.I.			
G Final Closed-in Pressure	1,179	P.S.I.			
H Final Hydrostatic Mud	1,996	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 12 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.		Breakdown: 12 Inc. of 5 mins. and a final inc. of ____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 00	43	00	59	00	46	00	62
P 2 05	46	05	85	05	49	05	76
P 3 10	46	10	485	10	51	10	163
P 4 15	49	15	878	15	53	15	599
P 5 20	52	20	1,018	20	55	20	845
P 6 25	55	25	1,088	25	59	25	961
P 7 30	59	30	1,133	30	62	30	1,037
P 8		35	1,162			35	1,080
P 9		40	1,185			40	1,110
P10		45	1,201			45	1,134
P11		50	1,213			50	1,150
P12		55	1,225			55	1,164
P13		60	1,235			60	1,179
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

CRUDE OIL TESTING INC.

Test Ticket No. 1237

Company A. Scott Ritchie Date 6/12/81

Company Address 125 N. Market Suite 950 Wichita No. of Charts 5

Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas

Well Name And Number Bucholz #B-2 Tester Mitch Dougherty

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Arbuckle Zone _____ Type of Test Conventional

DST# 8 Interval 3,901 To 3,911 Total Depth 3,911

Open 30 - 7:25 Shut In 30 - 7:55 Open 30 - 8:25 Shut In 30 - 8:55

Packer(s) Set 7:23 ~~A.M.~~ P.M. Started off Bottom 9:25 ~~A.M.~~ P.M.

Blow 1st Open: Very weak blow died in 10 min.

2nd Open: Blow never came back.

Recovery

Total Feet 10

Recovered 10 Ft. of Drilling mud, plugged tool. (MISRUN)

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides _____

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure _____ Final Hydrostatic Pressure _____

Initial Closed In Pressure _____ Final Closed In Pressure _____

Initial Flow Pressure _____ To _____ Final Flow Pressure _____ To _____

Test Area Temperature _____

Engineering Date

Elevation 2,221 K. B.

Mud Viscosity 46 Mud Weight 9.5 Water Loss 12.8

Chlorides 27,000 P.P.M. Type of Mud Starch Anchor Length 10

Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4

Drill Pipe Length 3,071 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. _____ Bottom Packer Depth. 3,901 Packer Size 6 3/4

Test Tool Size 5½ In. Tool Joint Size 4½ FH In.

Did Well Flow No Reversed Out _____

Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.

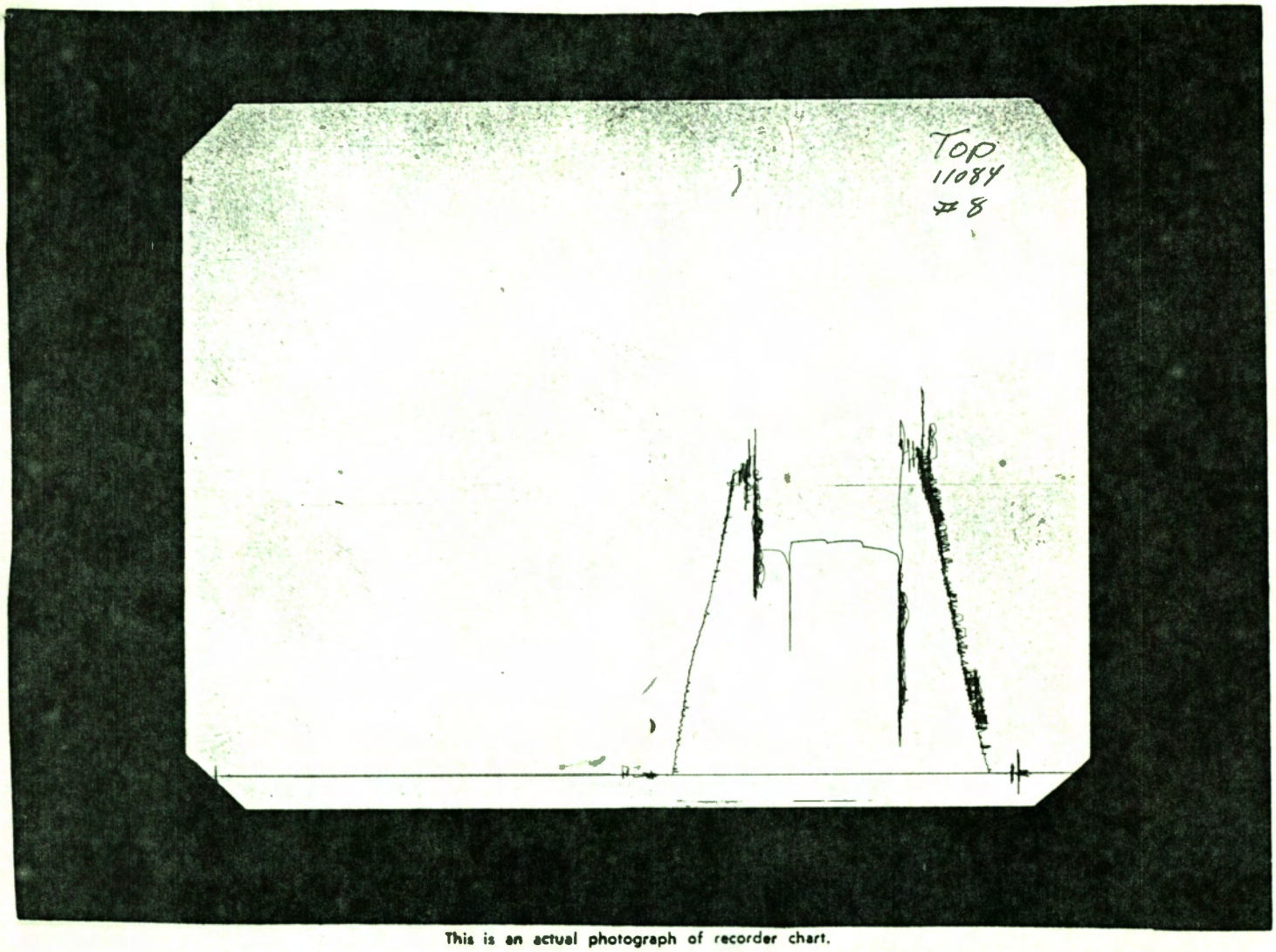
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.

Extra Equipment None

Remarks Single Conventional packer run. Open Hole Test (MISRUN) - $350.00

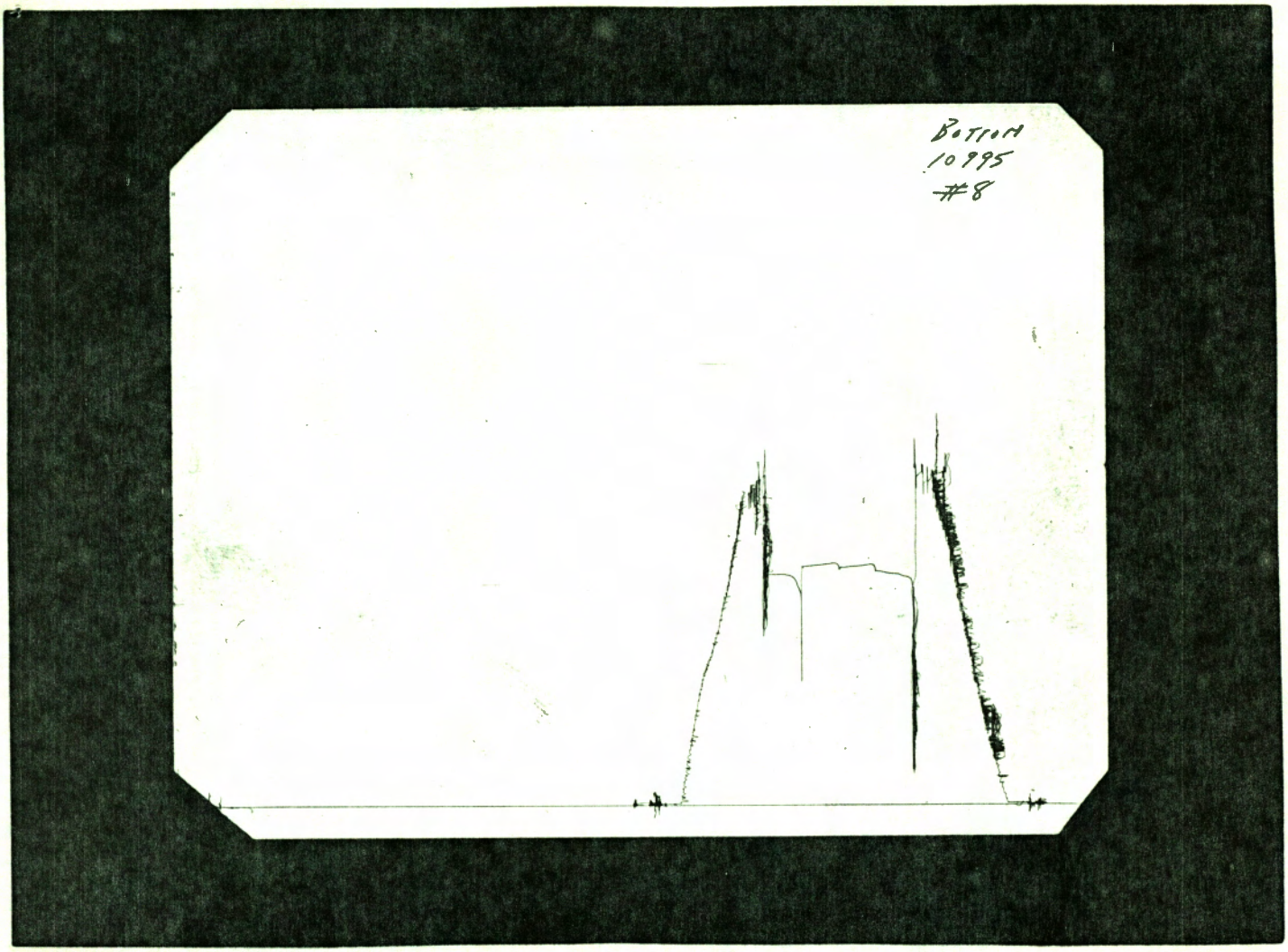
Thank-you

Price of Job $350.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(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



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POINT		PRESSURE Field Reading	Office Reading
(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

TEST REPORT

7-11-22

CRUDE OIL TESTING INC.
(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 1239

Company A. Scott Ritchie Date 6/13/81

Company Address 125 N. Market Suite 950 - Wichita No. of Charts 5

Location: Sec. 7 Twp. 11 Rge. 22 Co. Trego State Kansas

Well Name And Number Bucholz #B-2 Tester Mitch Dougherty

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Galen Babcock

Formation Arbuckle Zone _____ Type of Test Conventional

DST# 9 Interval 3,900 To 3,911 Total Depth 3,911

Open 30 - 10:45 Shut In 30 - 11:15 Open 30 - 11:45 Shut In 30 - 12:15

Packer(s) Set 10:43 A.M. P.M. Started off Bottom 12:45 A.M. P.M.

Blow 1st Open: Blew off bottom in 9 min., decreased to 2", steady blow.
2nd Open: Weak blow died in 9 min.

Recovery

Total Feet 520

Recovered 520 Ft. of Drilling mud, plugged tool. (MISRUN)

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides _____

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure _____ Final Hydrostatic Pressure _____

Initial Closed In Pressure _____ Final Closed In Pressure _____

Initial Flow Pressure _____ To _____ Final Flow Pressure _____ To _____

Test Area Temperature _____

Engineering Date

Elevation 2,221 K. B.

Mud Viscosity 45 Mud Weight 9.6 Water Loss 13.2

Chlorides 32,000 P.P.M. Type of Mud Starch Anchor Length 11

Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4

Drill Pipe Length 3,071 I.D. 3.8 In. Weight Pipe Length 635 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. _____ Bottom Packer Depth. 3,900 Packer Size 6 3/4

Test Tool Size 5½ In. Tool Joint Size 4½ FH In.

Did Well Flow _____ Reversed Out _____

Recorder Type and No. Kuster #11084 Clock Range No. #23934 12 Hr.

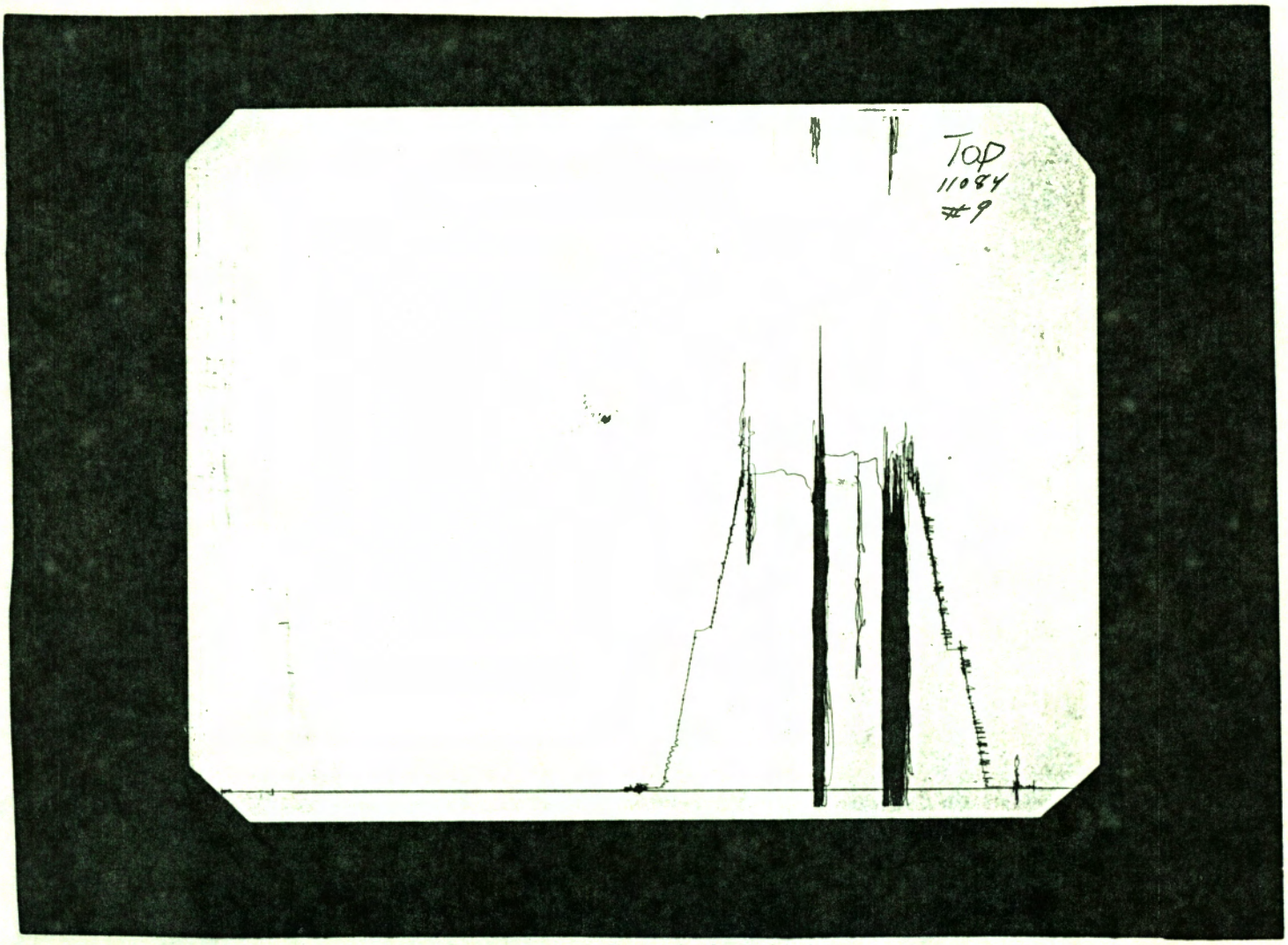
Recorder Type and No. Kuster #10995 Clock Range No. #23838 12 Hr.

Extra Equipment None

Remarks Single conventional packer run, Open Hole Test (MISRUN) - $350.00

Thank-you

Price of Job $350.00



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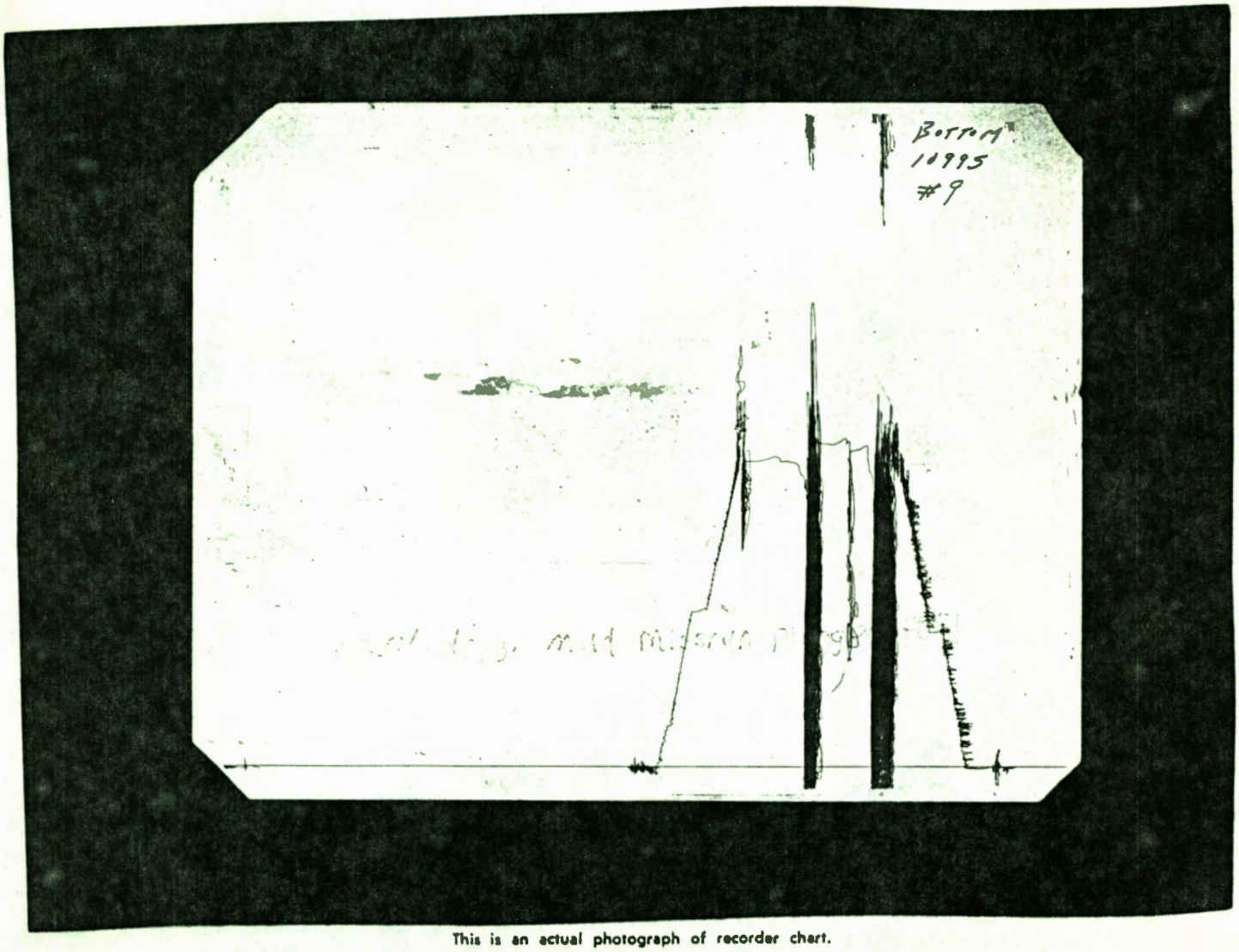
(E)	Second Initial Flow Pressure		PSI
(F)	Second Final Flow Pressure		PSI
(G)	Final Closed-in Pressure		PSI
(H)	Final Hydrostatic Mud		PSI



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POINT		PRESSURE Field Reading	Office Reading
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(G)	Final Closed-in Pressure		PSI
(H)	Final Hydrostatic Mud		PSI