TEST REPORT

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

CRUDE OIL TESTING INC.

Test Ticket No. 1898

Company A.Scott Ritchie Date 3-27-82
Company Address Suite 950,125 N.Market, Wichita,KS No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co Trego State KS
Well Name And Number Carpenter #1-B Tester Ken Metzler
Contractor Murfin Drlg. Rig No. 16 Co. Rep. Arden Ratzloff

Formation K.C. Zone A & B Type of Test Conventional

DST# 1 Interval 3,422 To 3,476 Total Depth 3,476
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 6:42 ~~A.M.~~ P.M. Started off Bottom 9:15 ~~A.M.~~ P.M.
Blow Weak to strong blow in 22 min. 1st. open.
Weak to strong blow in 18 min. 2nd. open.

Recovery
Total Feet 416'
Recovered 70 Ft. of Gas in pipe
Recovered 50 Ft. of Gassy oil cut mud.
Recovered 61 Ft. of Heavy oil cut mud.
Recovered 122 Ft. of Mud cut oil.
Recovered 183 Ft. of Slightly mud cut oil.
Recovered Ft. of
Gravity (Oil) Corrected To Temp. Water Chlorides

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,750 Final Hydrostatic Pressure 1,727
Initial Closed In Pressure 712 Final Closed In Pressure 678
Initial Flow Pressure 46 To 127 Final Flow Pressure 161 To 196
Test Area Temperature 108

Engineering Date
Elevation 2,173 K.B.
Mud Viscosity 35 Mud Weight 9.5 Water Loss 6.2
Chlorides 33,000 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 2,888 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.
Drill Collar Length I.D. In.
Top Packer Depth. 3,417 Bottom Packer Depth. 3,422 Packer Size 6 3/4
Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 13251 Clock Range No. 14074 12 Hr.
Recorder Type and No. AK-1 10994 Clock Range No. 16067 12 Hr.
Extra Equipment None
Remarks

Open Hole Test. Thank You. Price of Job $660.00

DRILL STEM TEST RECOVERY ANALYSIS

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

COMPANY: A. Scott Ritchie LEASE: Carpenter #1-B DST# 1
SEC: 17 Twp: 11S Rge: 22W COUNTY: Trego STATE: KS

VISUAL DST RECOVERY: 70' GIP, 50' GOCM, 61 HOCM
122', MCO 183' SMCO
(416' Total Fluid)

CENTRIFUGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	50	5	6	3	86
2	61	5	33	12	50
3	61	5	56	13	26
4	61	5	70	10	15
5	61	0	78	12	10
6	61	0	75	15	10
7	61	0	62	18	20

CALCULATED FLUID RECOVERY FROM PERCENTAGES

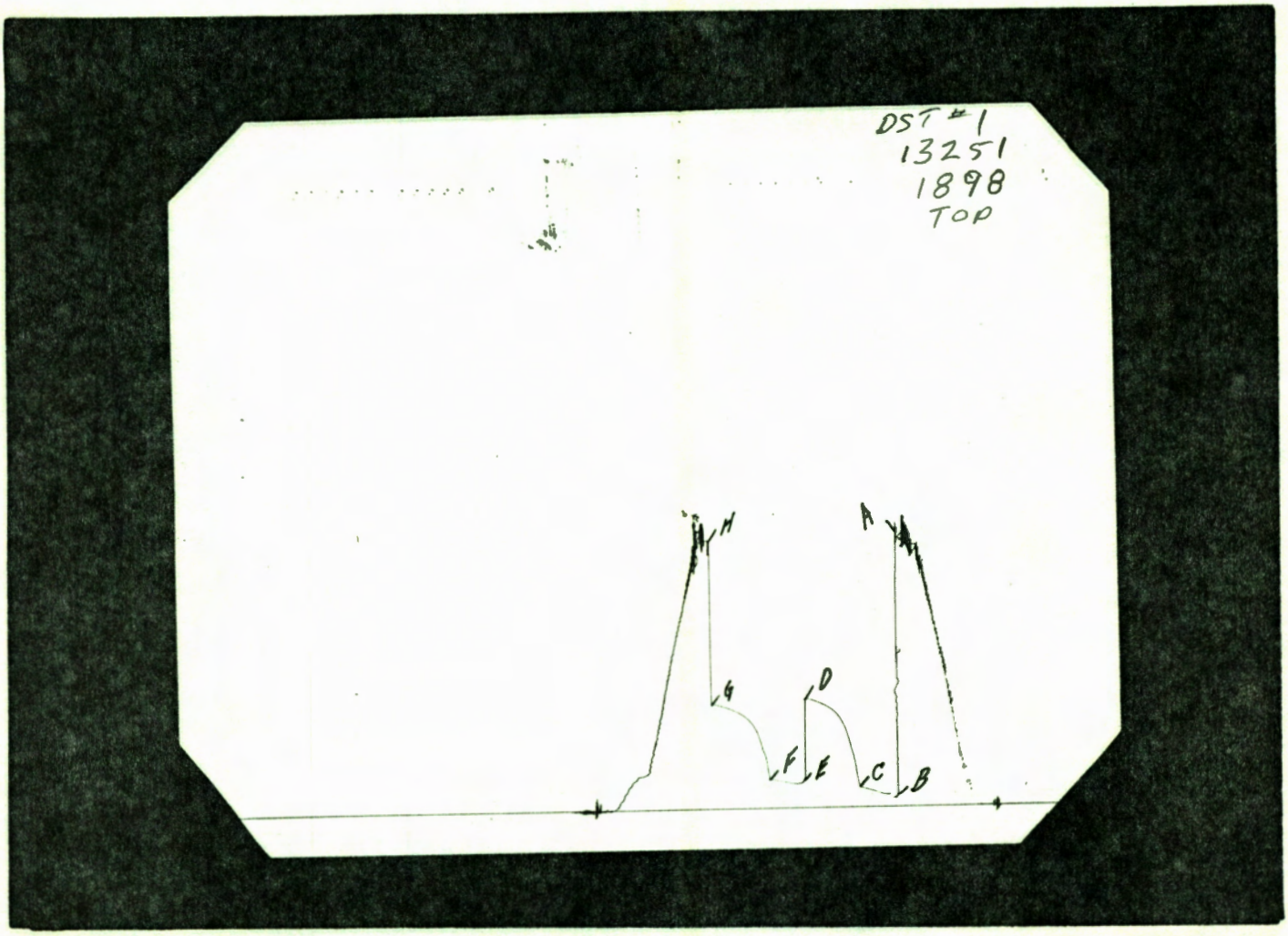
(Formula for Calculation)
Percent of individual fluid × Total footage represented in sample

SAMPLE #	TOTAL FOOTAGE	GAS %	×	Total	=	Feet	OIL %	×	Total	=	Feet	WATER %	×	Total	=	Feet	MUD %	×	Total	=	Feet
1	50	5	×	50	=	2.50	6	×	50	=	3.00	3	×	50	=	1.50	86	×	50	=	43.00
2	61	5	×	61	=	3.05	33	×	61	=	20.13	12	×	61	=	7.32	50	×	61	=	30.50
3	61	5	×	61	=	3.05	56	×	61	=	34.16	13	×	61	=	7.93	26	×	61	=	15.86
4	61	5	×	61	=	3.05	70	×	61	=	42.70	10	×	61	=	6.10	15	×	61	=	9.15
5	61	0	×	61	=	0	78	×	61	=	47.58	12	×	61	=	7.32	10	×	61	=	6.10
6	61	0	×	61	=	0	75	×	61	=	45.75	15	×	61	=	9.15	10	×	61	=	6.10
7	61	0	×	61	=	0	62	×	61	=	37.82	18	×	61	=	10.98	20	×	61	=	12.20
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
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			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals		11.65					231.14					50.30					122.91				

CALCULATED DST RECOVERY =

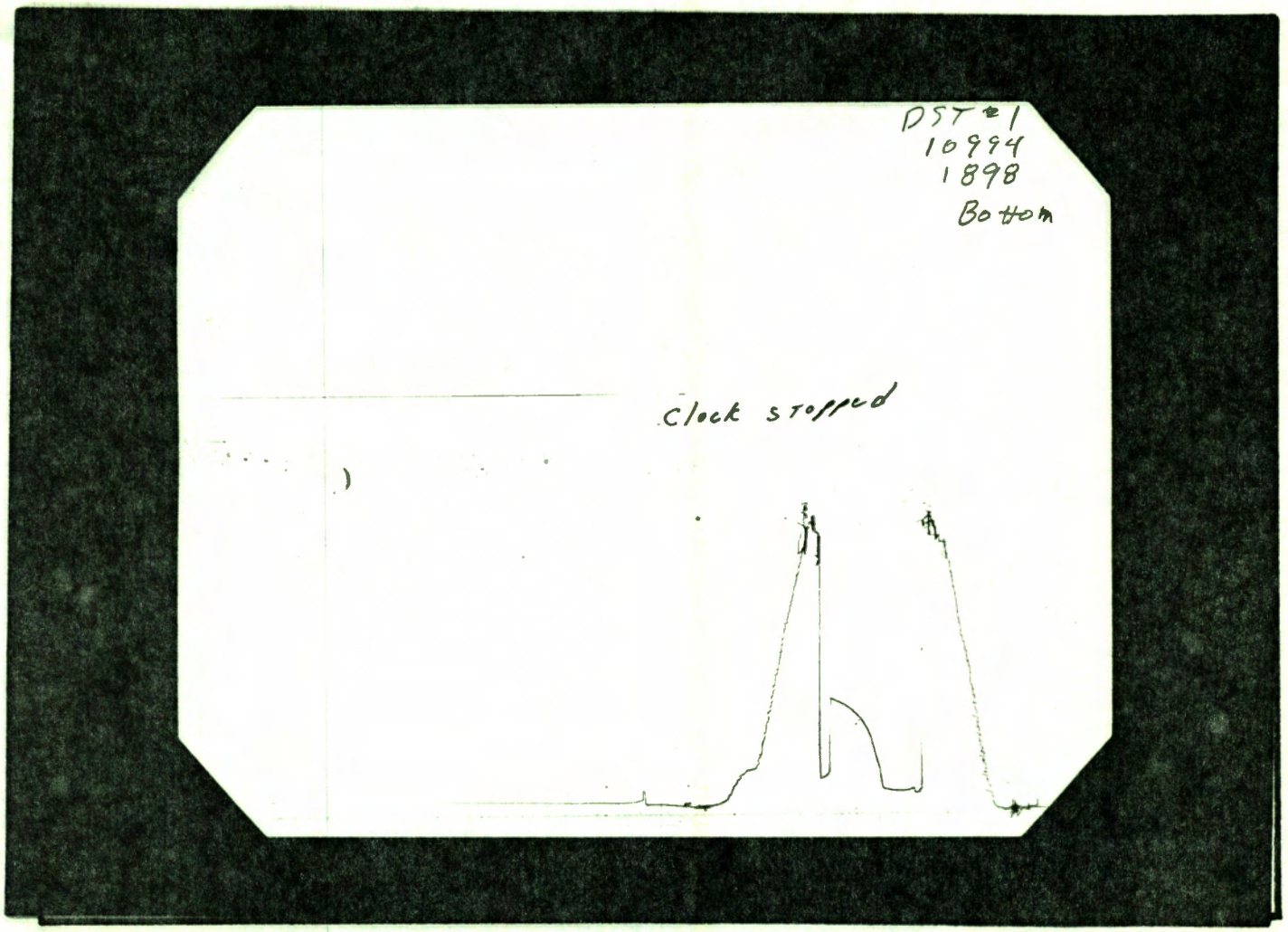
CHLORIDES MUD SYSTEM 33,000
CHLORIDES DST WATER
GRAVITY OF OIL Not enough oil to check.

GAS 11.65
OIL 231.14
WTR 50.30
MUD 122.91
TOTAL FLUID 416



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,750	1,781	PSI
(B)	First Initial Flow Pressure	46	58	PSI
(C)	First Final Flow Pressure	127	132	PSI
(D)	Initial Closed-in Pressure	712	717	PSI
(E)	Second Initial Flow Pressure	161	161	PSI
(F)	Second Final Flow Pressure	196	193	PSI
(G)	Final Closed-in Pressure	678	689	PSI
(H)	Final Hydrostatic Mud	1,727	1,750	PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	PRESSURE 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 3-27-82 Test Ticket No. 1898

Recorder No. Kuster AK-1 #13251 Capacity 4550 PSI Location 3,466 Ft.

Clock No. 14074 Elevation 2,173 K.B. Well Temperature 108 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,781	P.S.I.	Open Tool	6:45 AM	
B	First Initial Flow Pressure	58	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	132	P.S.I.	Initial Closed-in Pressure	45 Mins.	Mins.
D	Initial Closed-in Pressure	717	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	161	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	193	P.S.I.			
G	Final Closed-in Pressure	689	P.S.I.			
H	Final Hydrostatic Mud	1,750	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.
1 0	58	0	132	0	161	0	193
2 5	63	5	328	5	161	5	431
3 10	82	10	479	10	164	10	529
4 15	93	15	573	15	172	15	585
5 20	108	20	626	20	182	20	616
6 25	120	25	657	25	189	25	637
7 30	132	30	680	30	193	30	656
8		35	697			35	669
9		40	711			40	681
10		45	717			45	689
11							
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CRUDE OIL TESTING INC.

TEST REPORT

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

Test Ticket No. 1899

Company A.Scott Ritchie Date 3-27-82
Company Address Suite 950, 125 N.Market, Wichita,KS No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State Ks
Well Name And Number Carpenter #1-B Tester Ken Metzler
Contractor Murfin Drlg. Rig No. 16 Co. Rep Arden Ratzloff

Formation K.C. Zone 50 & 70 Type of Test Conventional

DST# 2 Interval 3,478 To 3,511 Total Depth 3,511
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 8:57 ~~A.M.~~ P.M. Started off Bottom 11:30 ~~A.M.~~ P.M.
Blow Weak to strong blow in 4 min. 1st. open.
Weak to strong blow in 7 min. 2nd. open.

Recovery
Total Feet 720'
Recovered 320 Ft. of Gas in pipe.
Recovered 40 Ft. of Oil specked mud.
Recovered 60 Ft. of Oil cut mud.
Recovered 120 Ft. of Mud cut oil.
Recovered 120 Ft. of Slightly mud cut oil.
Recovered 60 Ft. of Clean oil.
Gravity (Oil) 43 Corrected To Temp. 60 Water Chlorides

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,784 Final Hydrostatic Pressure 1,750
Initial Closed In Pressure 621 Final Closed In Pressure 655
Initial Flow Pressure 69 To 127 Final Flow Pressure 150 To 184
Test Area Temperature 111

Engineering Date
Elevation 2,173 K.B.
Mud Viscosity 46 Mud Weight 9.3 Water Loss 6.2
Chlorides 33,000 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 2,919 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.
Drill Collar Length I.D. In.
Top Packer Depth. Bottom Packer Depth. 3,478 Packer Size 6 3/4
Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 13251 Clock Range No. 14074 12 Hr.
Recorder Type and No. Ak-1 10994 Clock Range No. 16067 12 Hr.
Extra Equipment None
Remarks

Open Hole Test. Thank You. Price of Job $660.00

DRILL STEM TEST RECOVERY ANALYSIS

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

COMPANY: A.Scott Ritchie LEASE: Carpenter #1-B DST# 2
SEC: 17 Twp: 11S Rge: 22W COUNTY: Trego STATE: KS

VISUAL DST RECOVERY:

320' GIP, 40' OSPKM, 60' OCM
120' MCO, 120' SMCO, 60' CO
400' Total Fluid

CENTRIFUGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	40	12	6	1	81
2	60	8	38	2	52
3	60	10	67	10	13
4	60	10	80	7	3
5	60	19	71	6	4
6	60	16	77	5	2
7	60	34	66	0	0

CALCULATED FLUID RECOVERY FROM PERCENTAGES

(Formula for Calculation)

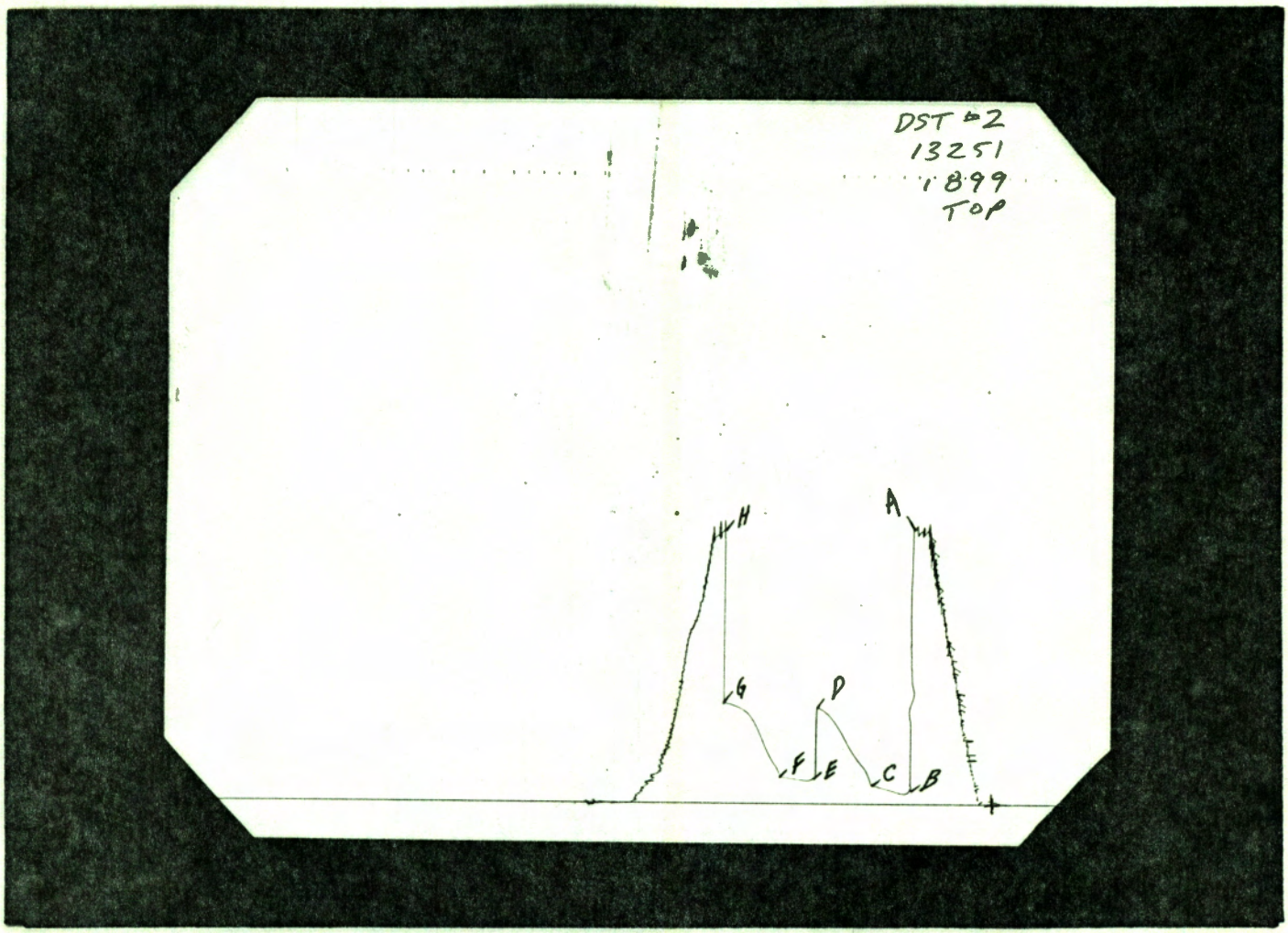
Percent of individual fluid × Total footage represented in sample

SAMPLE #	TOTAL FOOTAGE	GAS %	×	Total	=	Feet	OIL %	×	Total	=	Feet	WATER %	×	Total	=	Feet	MUD %	×	Total	=	Feet
1	40	12	×	40	=	4.8	6	×	40	=	2.4	1	×	40	=	0.4	81	×	40	=	32.4
2	60	8	×	60	=	4.8	38	×	60	=	22.8	2	×	60	=	1.2	52	×	60	=	31.2
3	60	10	×	60	=	6.0	67	×	60	=	40.2	10	×	60	=	4.2	13	×	60	=	7.8
4	60	10	×	60	=	6.0	80	×	60	=	48.0	7	×	60	=	4.2	3	×	60	=	1.8
5	60	19	×	60	=	11.4	71	×	60	=	42.6	6	×	60	=	3.6	4	×	60	=	2.4
6	60	16	×	60	=	9.6	77	×	60	=	46.2	5	×	60	=	3.0	2	×	60	=	1.2
7	60	34	×	60	=	20.4	66	×	60	=	39.6	0	×	60	=	0	0	×	60	=	0
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
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			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals		63					241.80					18.40					76.80				

CALCULATED DST RECOVERY =

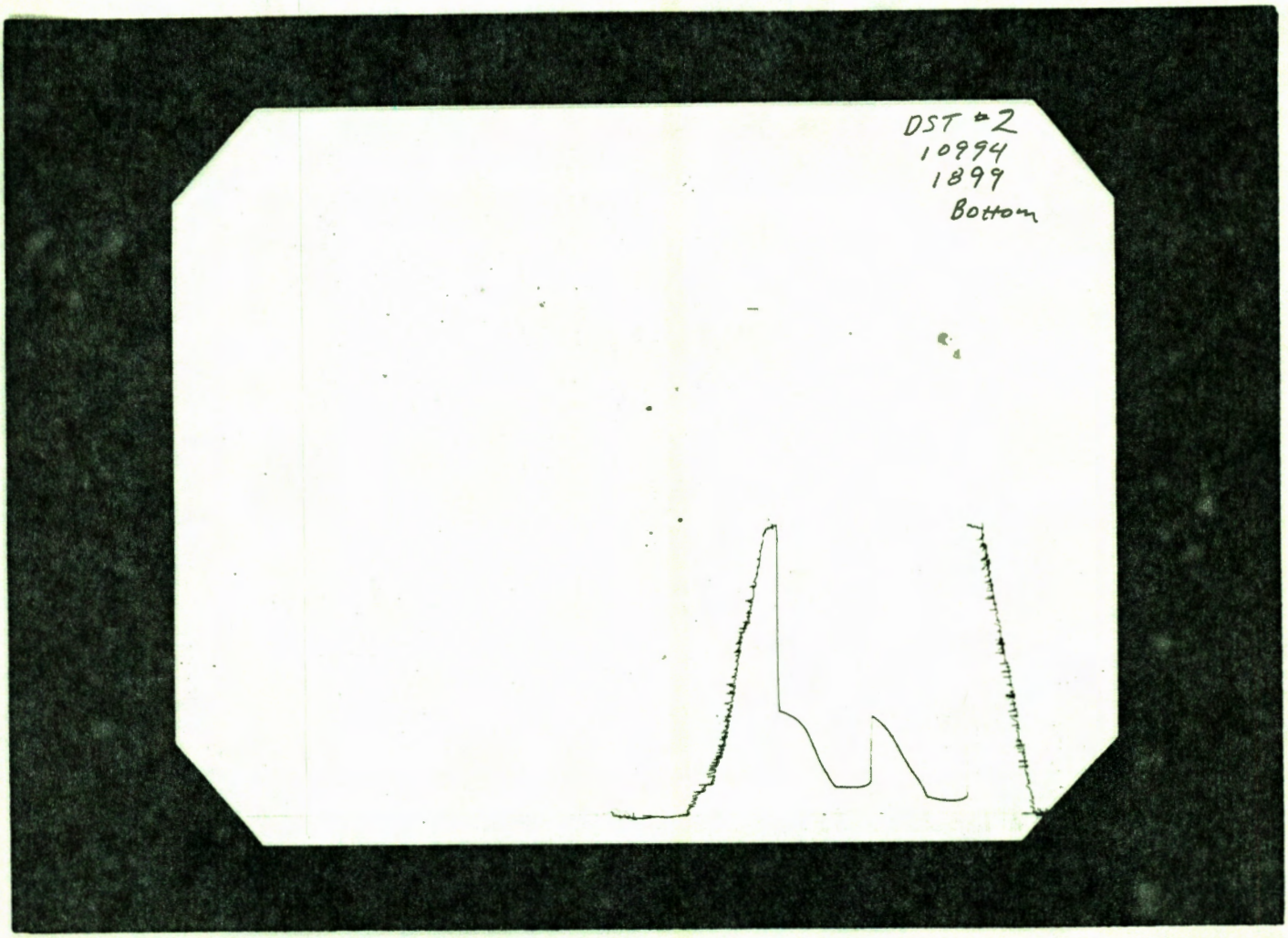
GAS 63.00
OIL 241.80
WTR 18.40
MUD 76.80
TOTAL FLUID 400

CHLORIDES MUD SYSTEM 33,000
CHLORIDES DST WATER
GRAVITY OF OIL 43 @ 60



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,784	1,782	PSI
(B)	First Initial Flow Pressure	69	66	PSI
(C)	First Final Flow Pressure	127	120	PSI
(D)	Initial Closed-in Pressure	621	631	PSI
(E)	Second Initial Flow Pressure	150	152	PSI
(F)	Second Final Flow Pressure	184	178	PSI
(G)	Final Closed-in Pressure	655	659	PSI
(H)	Final Hydrostatic Mud	1,750	1,772	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 3-27-82 Test Ticket No. 1899

Recorder No. Kuster AK-1 #13251 Capacity 4550 PSI Location 3501 Ft.

Clock No. 14074 Elevation 2,173 K.B. Well Temperature 111 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,782	P.S.I.	Open Tool	9:00 PM	
B	First Initial Flow Pressure	66	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	120	P.S.I.	Initial Closed-in Pressure	45 Mins.	Mins.
D	Initial Closed-in Pressure	631	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	152	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	178	P.S.I.			
G	Final Closed-in Pressure	659	P.S.I.			
H	Final Hydrostatic Mud	1,772	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 0	66	0	120	0	152	0	178
P 2 5	67	5	211	5	153	5	282
P 3 10	74	10	265	10	155	10	359
P 4 15	86	15	318	15	161	15	456
P 5 20	100	20	384	20	166	20	538
P 6 25	111	25	458	25	173	25	593
P 7 30	120	30	520	30	178	30	622
P 8		35	575			35	640
P 9		40	609			40	653
P10		45	631			45	659
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. 1950

Company A. Scott Ritchie Date 3-28-82

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

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter #1 "B" Tester Ken Metzler

Contractor Murfin Rig No. 16 Co. Rep. Arden Ratzloff

Formation K.C. Zone 90 & 100 Type of Test Conventional

DST# 3 Interval 3,513 To 3,540 Total Depth 3,540

Open 30 Shut In 45 Open 30 Shut In 45

Packer(s) Set 11:12 A.M. P.M. Started off Bottom 1:45 A.M. P.M.

Blow Weak to strong blow in 9 min. 1st. open.
Weak to strong blow in 14 min. 2nd. open.

Recovery

Total Feet 630'

Recovered 630 Ft. of Muddy salt water.

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Recovered _____ Ft. of _____

Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides 138,000

Pressures & Temp. (Office Reading If Applicable)

Initial Hydrostatic Pressure 1,795 Final Hydrostatic Pressure 1,773

Initial Closed In Pressure 781 Final Closed In Pressure 769

Initial Flow Pressure 58 To 219 Final Flow Pressure 242 To 334

Test Area Temperature 110

Engineering Date

Elevation 2,173 K.B.

Mud Viscosity 44 Mud Weight 9.5 Water Loss 7.4

Chlorides 33,000 P.P.M. Type of Mud starch Anchor Length 27'

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

Drill Pipe Length 2,950 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. _____ Bottom Packer Depth. 3,513 Packer Size 6 3/4

Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.

Did Well Flow No Reversed Out NO

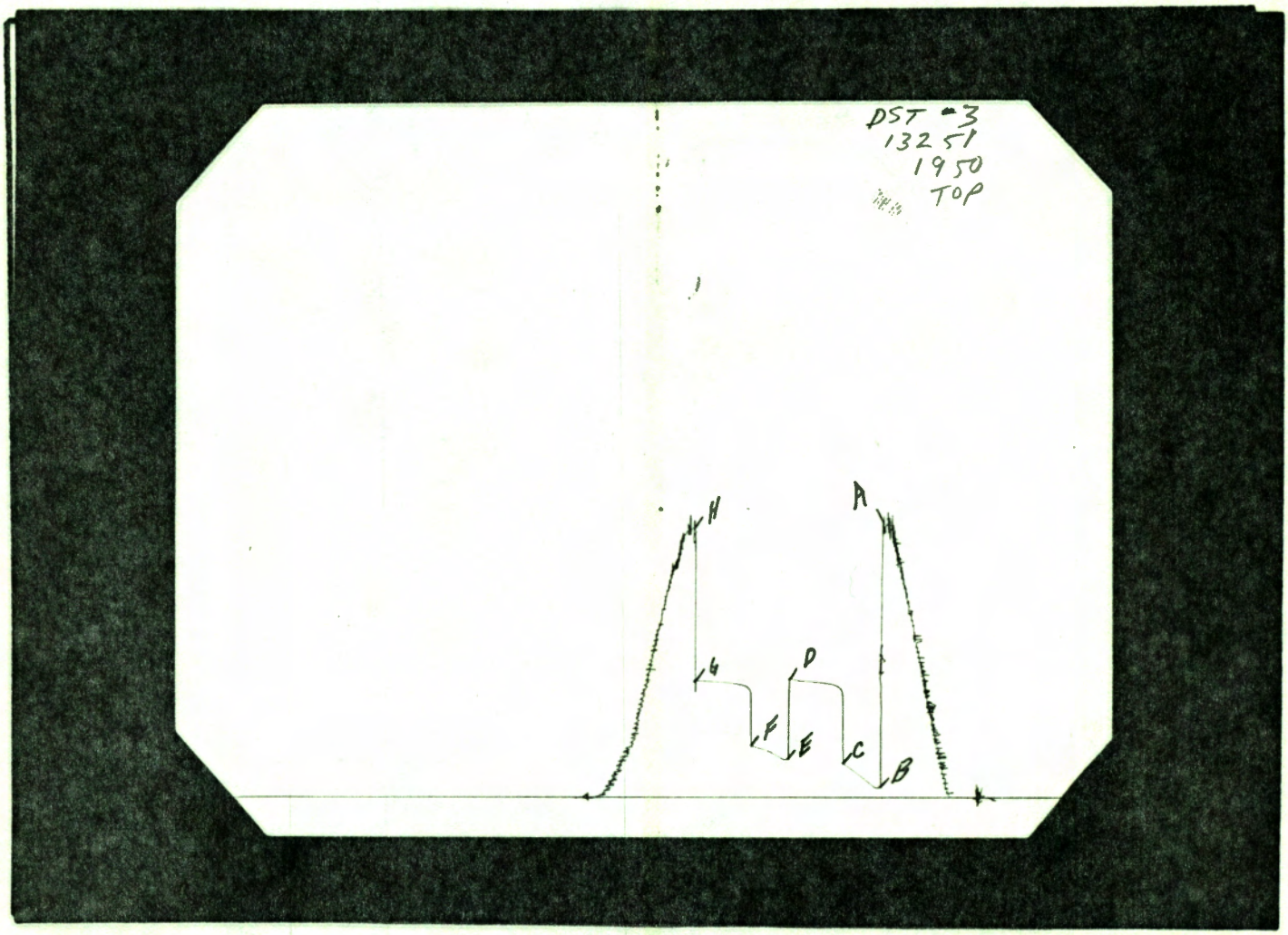
Recorder Type and No. AK-1 13251 Clock Range No. 14074 12 Hr.

Recorder Type and No. AK-1 10994 Clock Range No. 16067 12 Hr.

Extra Equipment None

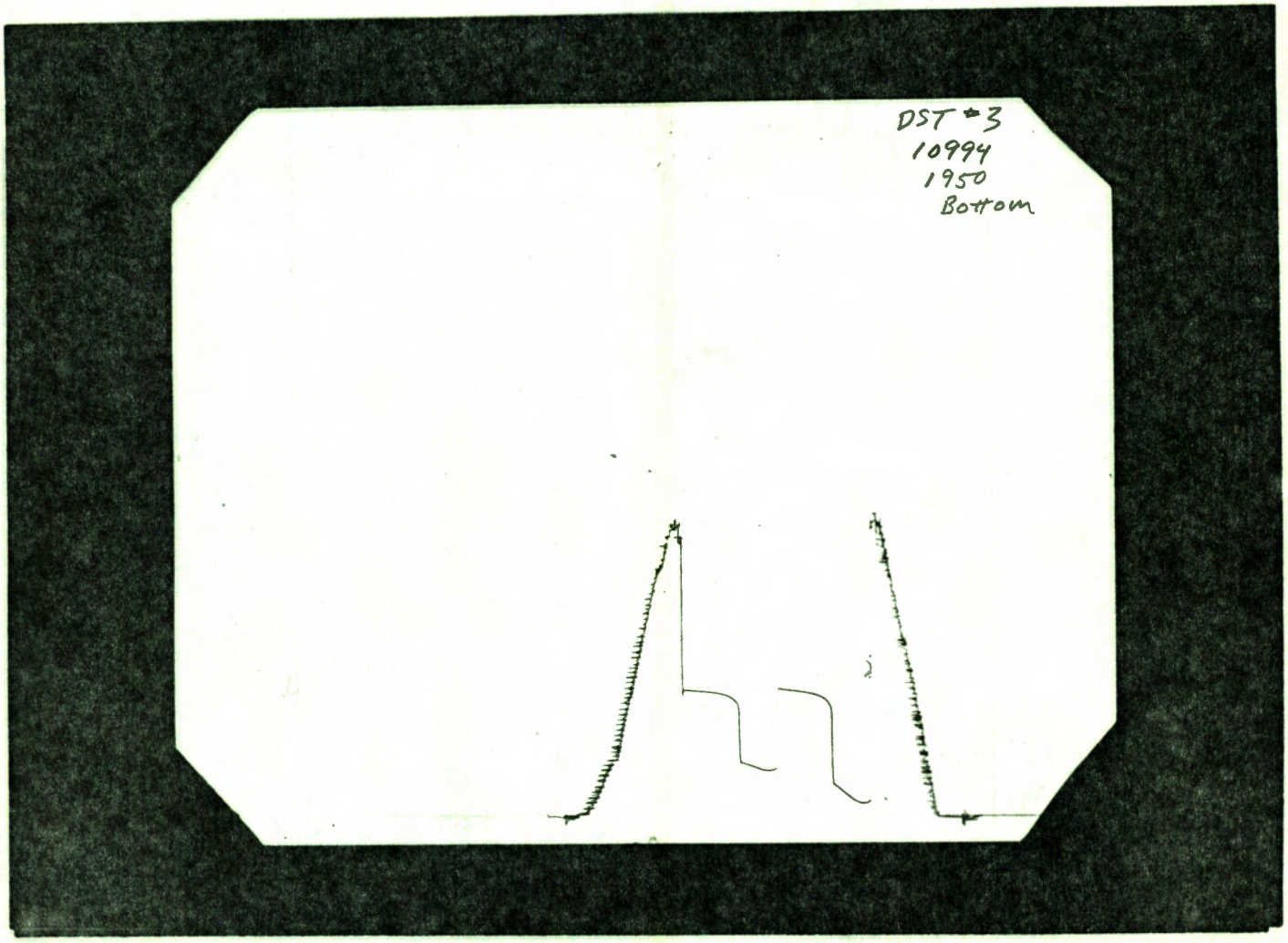
Remarks _____

Open Hole Test. 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	1,795	1,785	PSI
(B)	First Initial Flow Pressure	58	60	PSI
(C)	First Final Flow Pressure	219	217	PSI
(D)	Initial Closed-in Pressure	781	781	PSI
(E)	Second Initial Flow Pressure	242	249	PSI
(F)	Second Final Flow Pressure	334	336	PSI
(G)	Final Closed-in Pressure	769	765	PSI
(H)	Final Hydrostatic Mud	1,773	1,772	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 3-28-82 Test Ticket No. 1950

Recorder No. Kuster Ak-1 #13251 Capacity 4550 PSI Location 3530 Ft.

Clock No. 14074 Elevation 2,173 K.B. Well Temperature 110 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,785	P.S.I.	Open Tool	11:15 A M	
B	First Initial Flow Pressure	60	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	217	P.S.I.	Initial Closed-in Pressure	45 Mins.	Mins.
D	Initial Closed-in Pressure	781	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	249	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	336	P.S.I.			
G	Final Closed-in Pressure	765	P.S.I.			
H	Final Hydrostatic Mud	1,772	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of Min.

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

Final Shut-In
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
1	0	60		0	217		0	249		0	336
2	5	65		5	729		5	252		5	733
3	10	94		10	743		10	272		10	744
4	15	127		15	749		15	297		15	748
5	20	158		20	754		20	312		20	752
6	25	188		25	758		25	324		25	755
7	30	217		30	762		30	336		30	758
8				35	765					35	761
9				40	771					40	763
10				45	781					45	765
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CRUDE OIL TESTING INC.

TEST REPORT

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

Test Ticket No. 1951

Company A. Scott Ritchie Date 3-28-82
Company Address Suite 905, 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS
Well Name And Number Carpenter "B" #1 Tester Ken Metzler
Contractor Murfin Drlg. Rig No. 16 Co. Rep. Arden Ratzloff

Formation K.C. Zone 140, 160,& 180 Type of Test Conventional

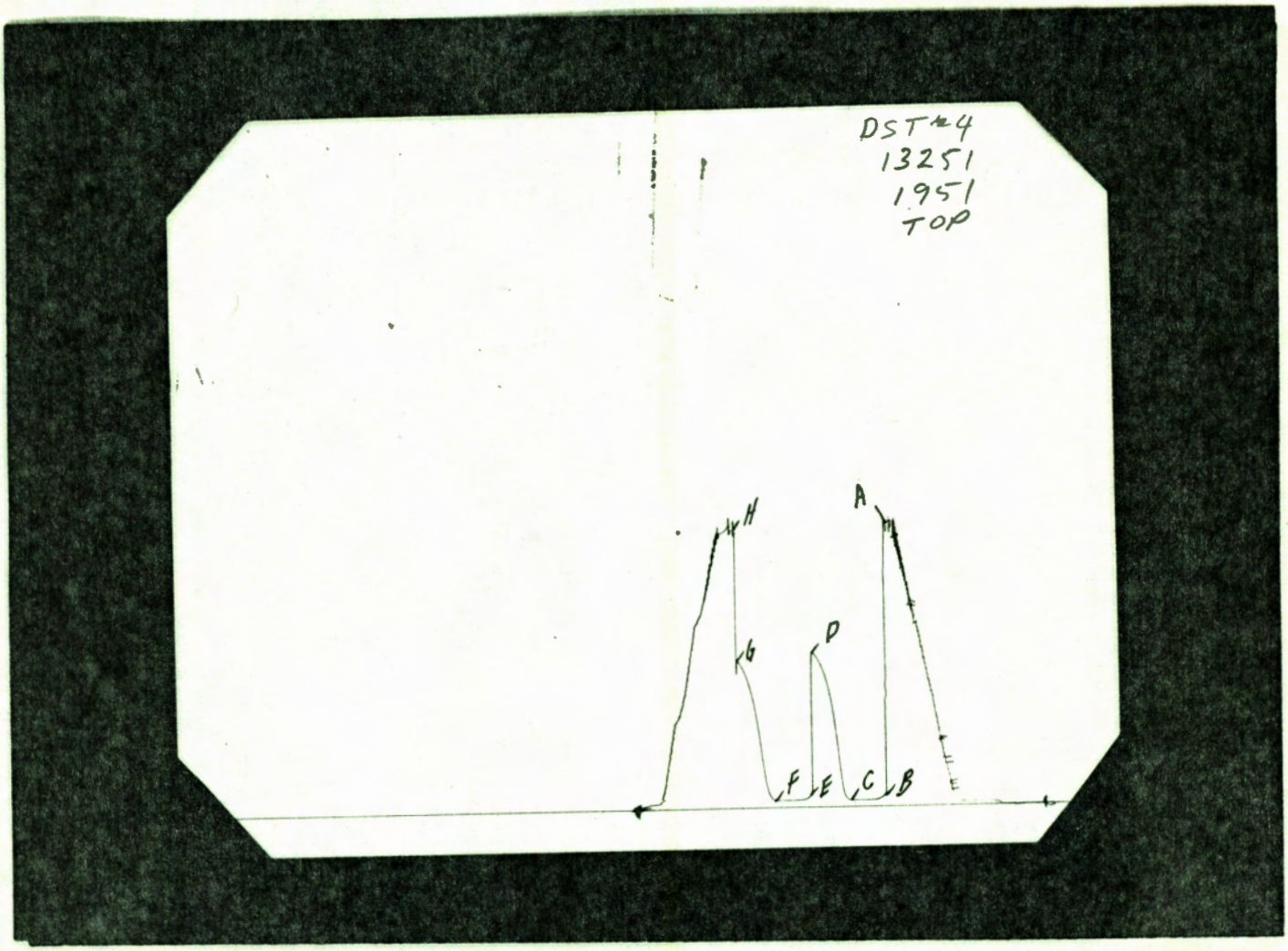
DST# 4 Interval 3,550 To 3,618 Total Depth 3,618
Open 30 Shut In 30 Open 30 Shut In 30
Packer(s) Set 2:57 ~~A.M.~~ ~~P.M.~~ Started off Bottom 5:00 A.M. ~~P.M.~~
Blow Weak blow died in 15 min. 1st. open.
Dead on 2nd. open.

Recovery
Total Feet 15'
Recovered 15 Ft. of drilling mud-no show
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 1,852 Final Hydrostatic Pressure 1,830
Initial Closed In Pressure 1,009 Final Closed In Pressure 963
Initial Flow Pressure 46 To 46 Final Flow Pressure 46 To 46
Test Area Temperature 108

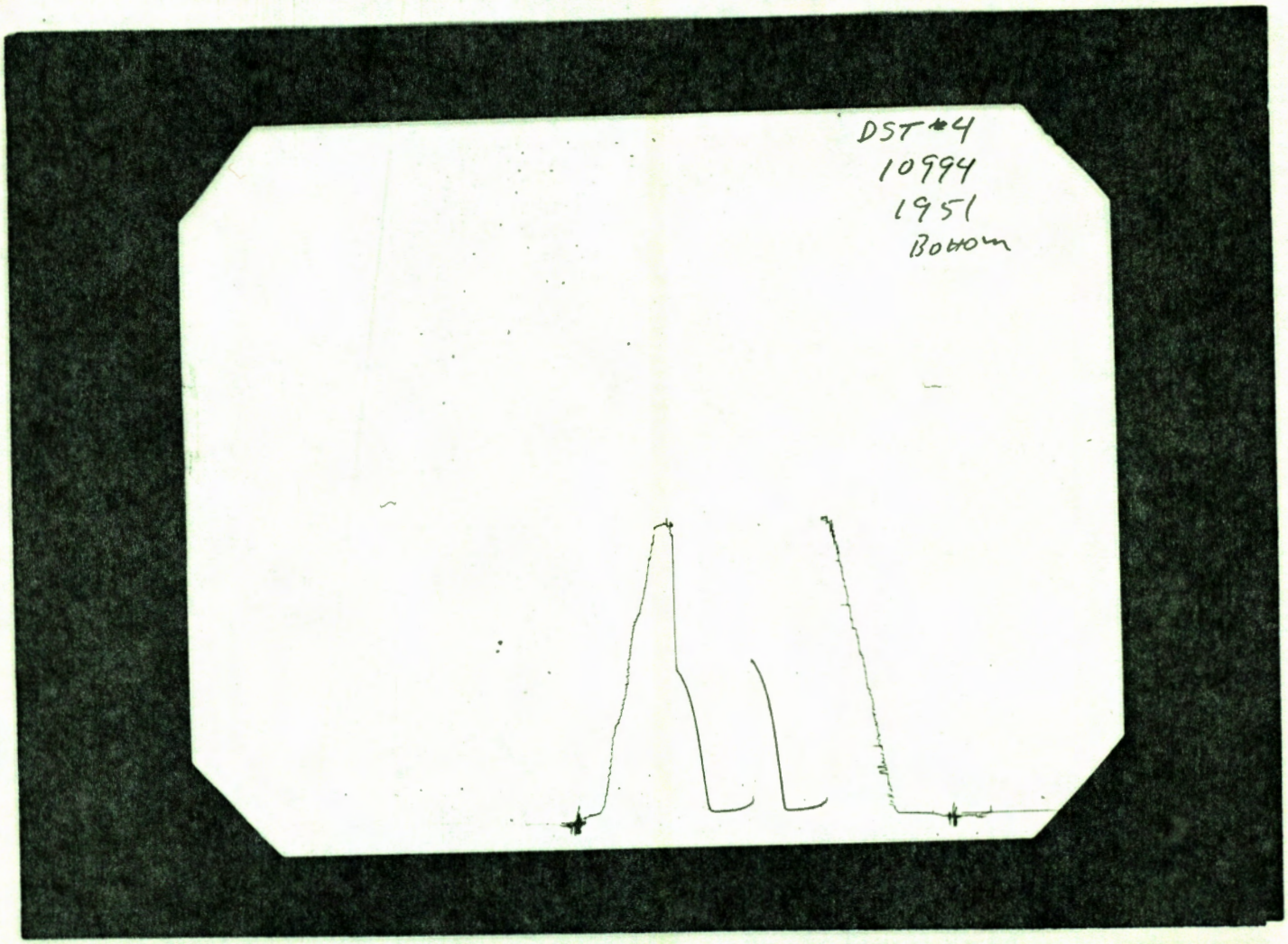
Engineering Date
Elevation 2,173 K.B.
Mud Viscosity 45 Mud Weight 9.3 Water Loss 7.4
Chlorides 33,000 P.P.M. Type of Mud starch Anchor Length 68"
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 3,043 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.
Drill Collar Length I.D. In.
Top Packer Depth. 3,545 Bottom Packer Depth. 3,550 Packer Size 6 3/4
Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 13251 Clock Range No. 14074 12 Hr.
Recorder Type and No. Ak-1 10994 Clock Range No. 16067 12 Hr.
Extra Equipment None
Remarks

Open Hole Test. 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	1,852	1,848	PSI
(B)	First Initial Flow Pressure	46	40	PSI
(C)	First Final Flow Pressure	46	47	PSI
(D)	Initial Closed-in Pressure	1.009	1,011	PSI
(E)	Second Initial Flow Pressure	46	47	PSI
(F)	Second Final Flow Pressure	46	49	PSI
(G)	Final Closed-in Pressure	963	966	PSI
(H)	Final Hydrostatic Mud	1,830	1,804	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 3-29-82 Test Ticket No. 1951

Recorder No. Kuster Ak-1 #13251 Capacity 4550 PSI Location 3,680 Ft.

Clock No. 14074 Elevation 2,173 K.B. Well Temperature 108 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,848	P.S.I.	Open Tool	3:00 A M	
B	First Initial Flow Pressure	40	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	47	P.S.I.	Initial Closed-in Pressure	30 Mins.	Mins.
D	Initial Closed-in Pressure	1,011	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	47	P.S.I.	Final Closed-in Pressure	30 Mins.	Mins.
F	Second Final Flow Pressure	49	P.S.I.			
G	Final Closed-in Pressure	966	P.S.I.			
H	Final Hydrostatic Mud	1,804	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.
1	0	40	0	47	0	47	0	49
2	5	40	5	139	5	47	5	94
3	10	41	10	532	10	47	10	335
4	15	42	15	783	15	47	15	649
5	20	43	20	917	20	48	20	824
6	25	44	25	991	25	48	25	925
7	30	47	30	1,011	30	49	30	966
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TEST REPORT

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

CRUDE OIL TESTING INC.

Test Ticket No. 1952

Company A. Scott Ritchie Date 3-29-82
Company Address Suite 950,125 No Market,Wichita, KS No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS
Well Name And Number Carpenter "B" #1 Tester Ken Metzler
Contractor Murfin Drlg. Rig No. 16 Co. Rep. Arden Ratzloff

Formation K.C. Zone 200 & 220 Type of Test Conventional

DST# 5 Interval 3,167 To 3,666 Total Depth 3,666
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 4:42 ~~A.M.~~ P.M. Started off Bottom 7:15 ~~A.M.~~ P.M.
Blow Weak to strong blow in 6 min. 1st. open.
Weak to strong blow in 11 mon. 2nd. open.

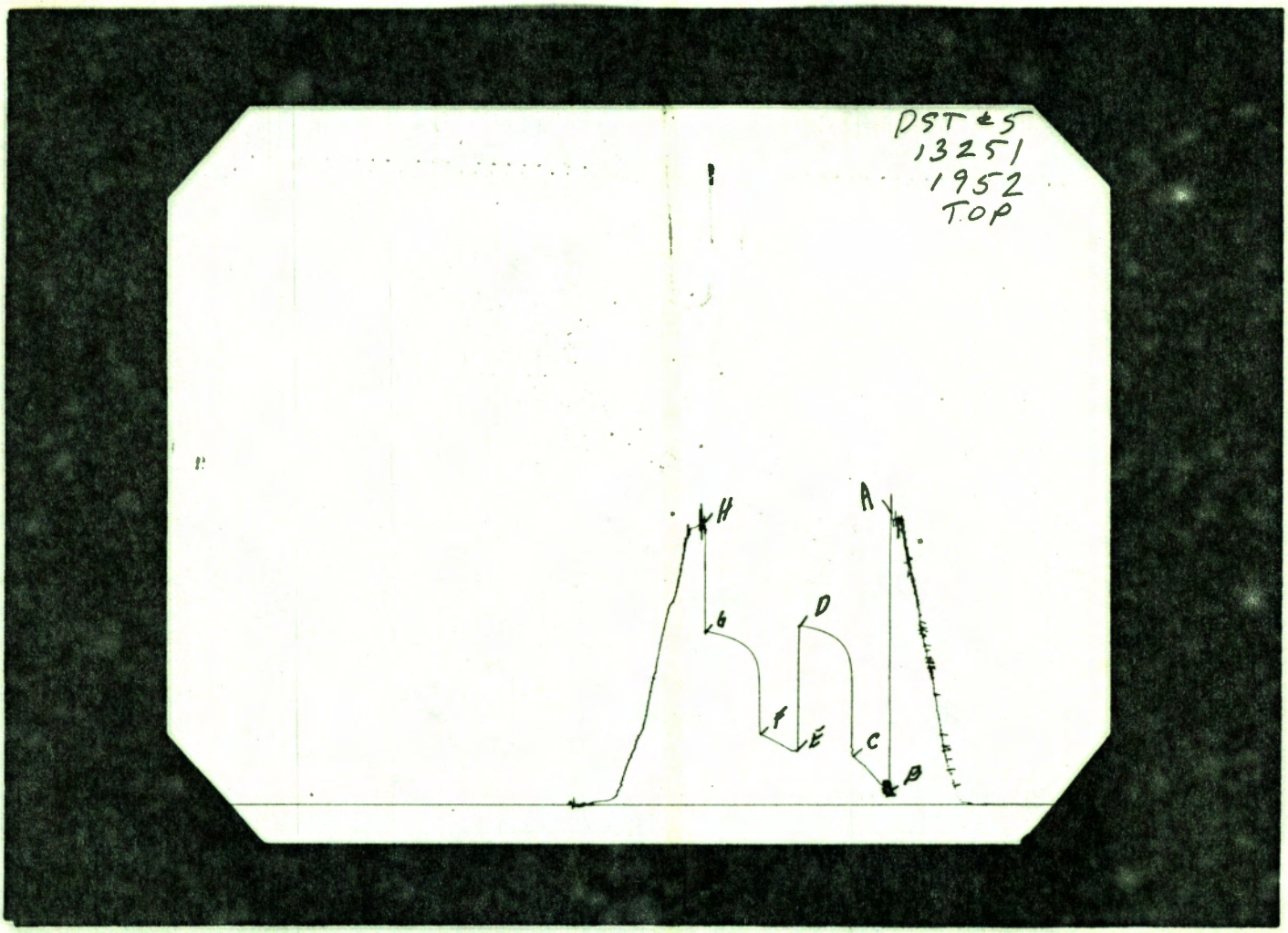
Recovery
Total Feet 1050'
Recovered 1,050 Ft. of Muddy salt water- no show of oil.
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Gravity (Oil) Corrected To Temp. Water Chlorides 88,000

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,852 Final Hydrostatic Pressure 1,830
Initial Closed In Pressure 1,169 Final Closed In Pressure 1,123
Initial Flow Pressure 115 To 323 Final Flow Pressure 334 To 461
Test Area Temperature 110

Engineering Date
Elevation 2,173 K.B.
Mud Viscosity 40 Mud Weight 9.2 Water Loss 8.6
Chlorides 35,000 P.P.M. Type of Mud starch Anchor Length 49'
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 3,074 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.
Drill Collar Length I.D. In.
Top Packer Depth. 3,612 Bottom Packer Depth. 3,617 Packer Size 6 3/4
Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 13251 Clock Range No. 14074 12 Hr.
Recorder Type and No. Ak-1 10994 Clock Range No. 16067 12 Hr.
Extra Equipment None
Remarks

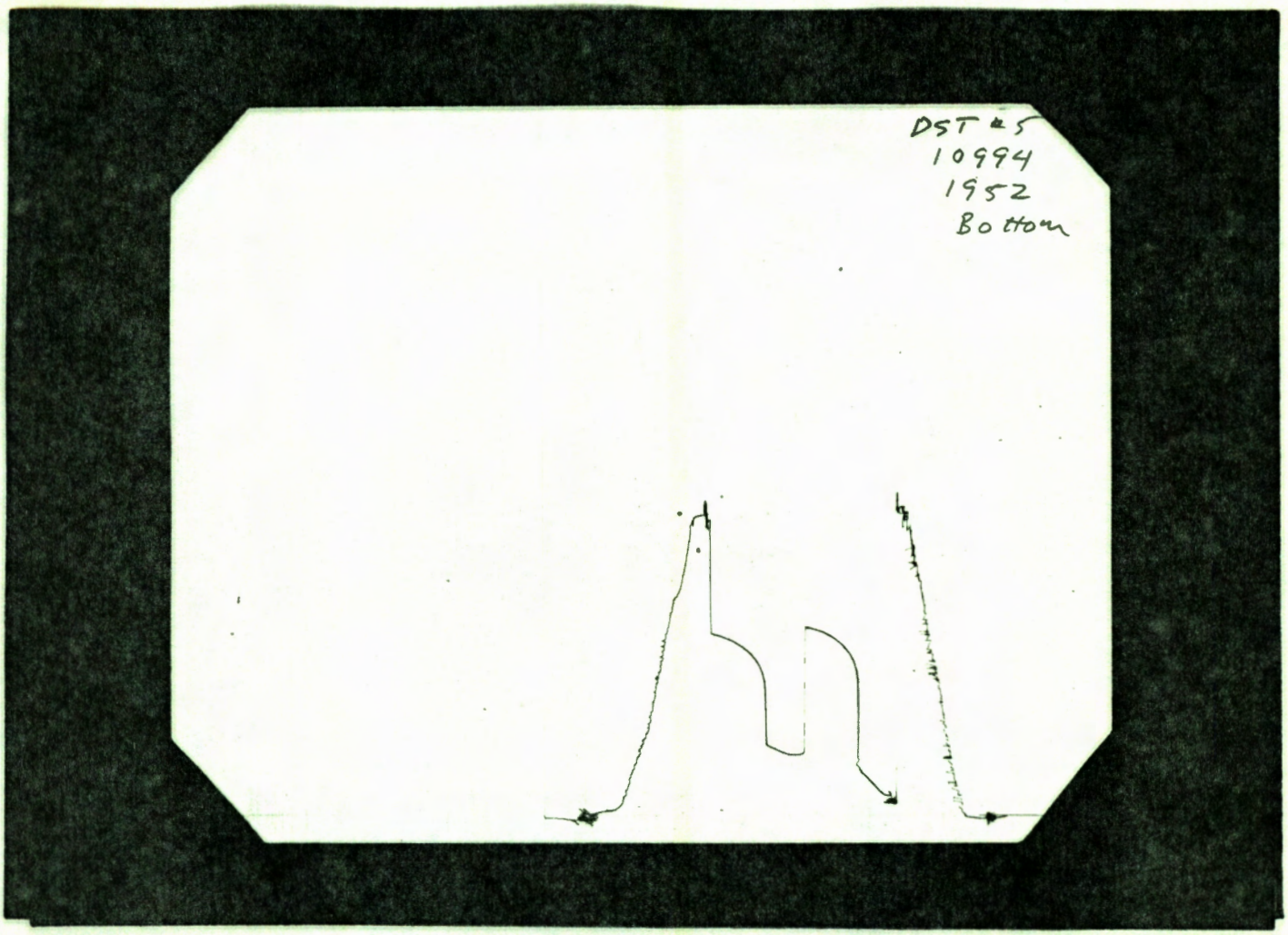
Open Hole Test. Thank You.

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,852	1,848	PSI
(B)	First Initial Flow Pressure	115	88	PSI
(C)	First Final Flow Pressure	323	323	PSI
(D)	Initial Closed-in Pressure	1,169	1,166	PSI
(E)	Second Initial Flow Pressure	334	353	PSI
(F)	Second Final Flow Pressure	461	464	PSI
(G)	Final Closed-in Pressure	1,123	1,128	PSI
(H)	Final Hydrostatic Mud	1,830	1,830	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 3-29-82 Test Ticket No. 1952

Recorder No. Kuster AK-1 #13251 Capacity 4550 PSI Location 3656 Ft.

Clock No. 14074 Elevation 2,173 K.B. Well Temperature 110 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,848	P.S.I.	Open Tool	4:45 P M	
B	First Initial Flow Pressure	88	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	323	P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1,166	P.S.I.	Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	353	P.S.I.	Final Closed-in Pressure	45 Mins.	Mins.
F	Second Final Flow Pressure	464	P.S.I.			
G	Final Closed-in Pressure	1,128	P.S.I.			
H	Final Hydrostatic Mud	1,830	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 8 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 2 Min.		final inc. of Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	88	0	323	0	353	0	464
2 5	130	5	1,020	5	357	5	961
3 10	162	10	1,067	10	378	10	1,015
4 15	211	15	1,098	15	401	15	1,048
5 20	255	20	1,122	20	422	20	1,071
6 25	289	25	1,134	25	444	25	1,087
7 30	323	30	1,146	30	464	30	1,101
8		35	1,157			35	1,112
9		40	1,164			40	1,122
10		42	1,166			45	1,128
11							
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17							
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19							
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TEST REPORT

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

CRUDE OIL TESTING INC.

Test Ticket No. 1953

Company A. Scott Ritchie Date 3-30-82

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

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter "B" #1 Tester Ken Metzler

Contractor Murfin Drlg. Rig No. 16 Co. Rep. Arden Ratzloff

Formation Marmaton Zone _____ Type of Test Conventional

DST# 6

Interval 3,753 To 3,800 Total Depth 3,800

Open 30 Shut In 30 Open 30 Shut In 30

Packer(s) Set 1:42 ~~P.M.~~ Started off Bottom 3:45 ~~P.M.~~

Blow Weak blow died in 15 min. 1st. open.
Died on 2nd. open, flushed tool, weak blow for 10 min.

Recovery

Total Feet 5'

Recovered 5 Ft. of drilling mud-no show of oil.

Recovered _____ Ft. of _____

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 1,989 Final Hydrostatic Pressure 1,966

Initial Closed In Pressure 277 Final Closed In Pressure 104

Initial Flow Pressure 35 To 35 Final Flow Pressure 35 To 35

Test Area Temperature 112

Engineering Date

Elevation 2,173 K.B.

Mud Viscosity 45 Mud Weight 9.5 Water Loss 8.2

Chlorides 31,000 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 3,199 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. 3,748 Bottom Packer Depth. 3,753 Packer Size 6 3/4

Test Tool Size 5 1/2 In. Tool Joint Size 4 1/2 FH In.

Did Well Flow No Reversed Out No

Recorder Type and No. AK-1 13251 Clock Range No. 16067 12 Hr.

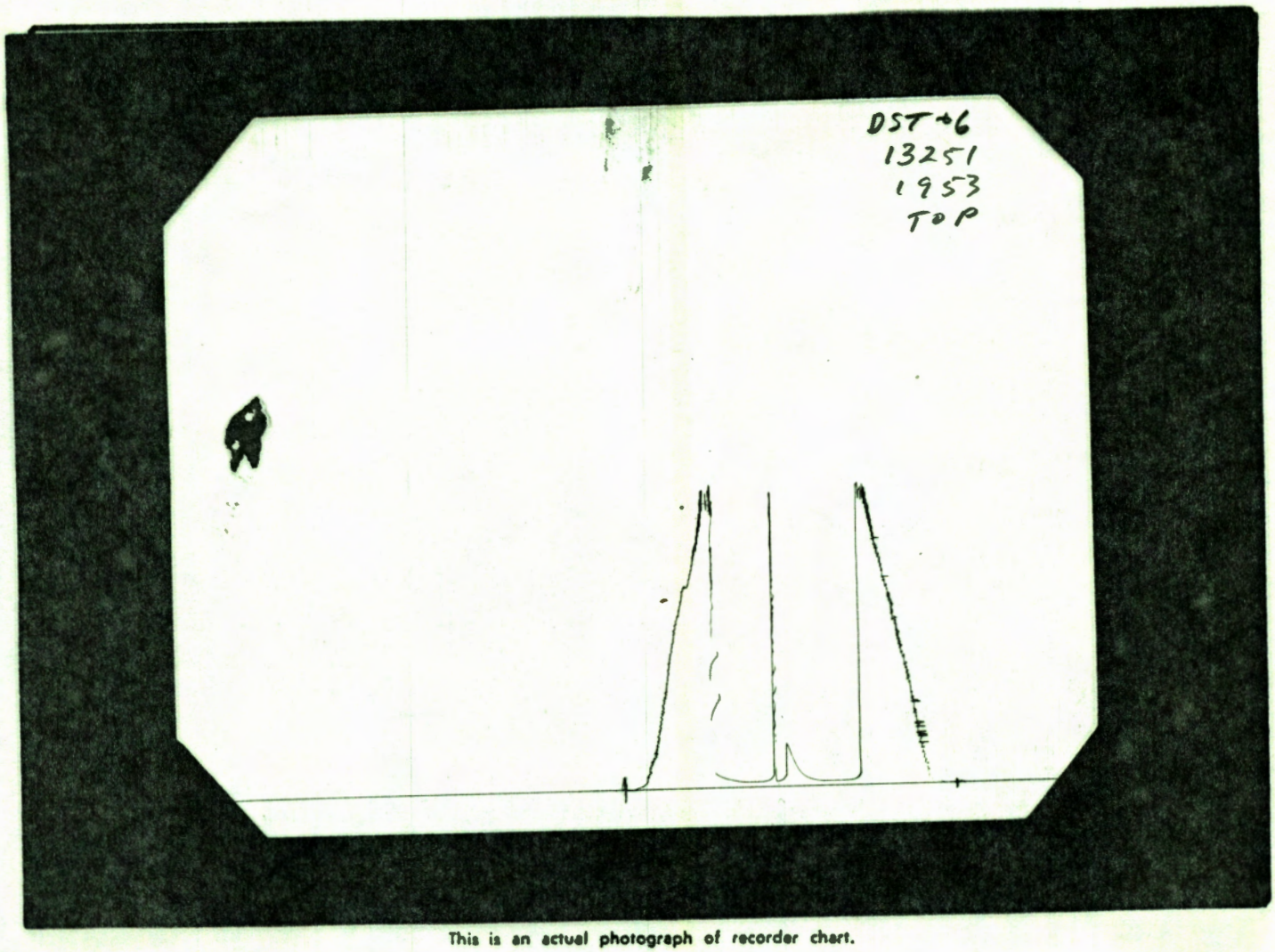
Recorder Type and No. AK-1 10994 Clock Range No. 21048 12 Hr.

Extra Equipment None

Remarks _____

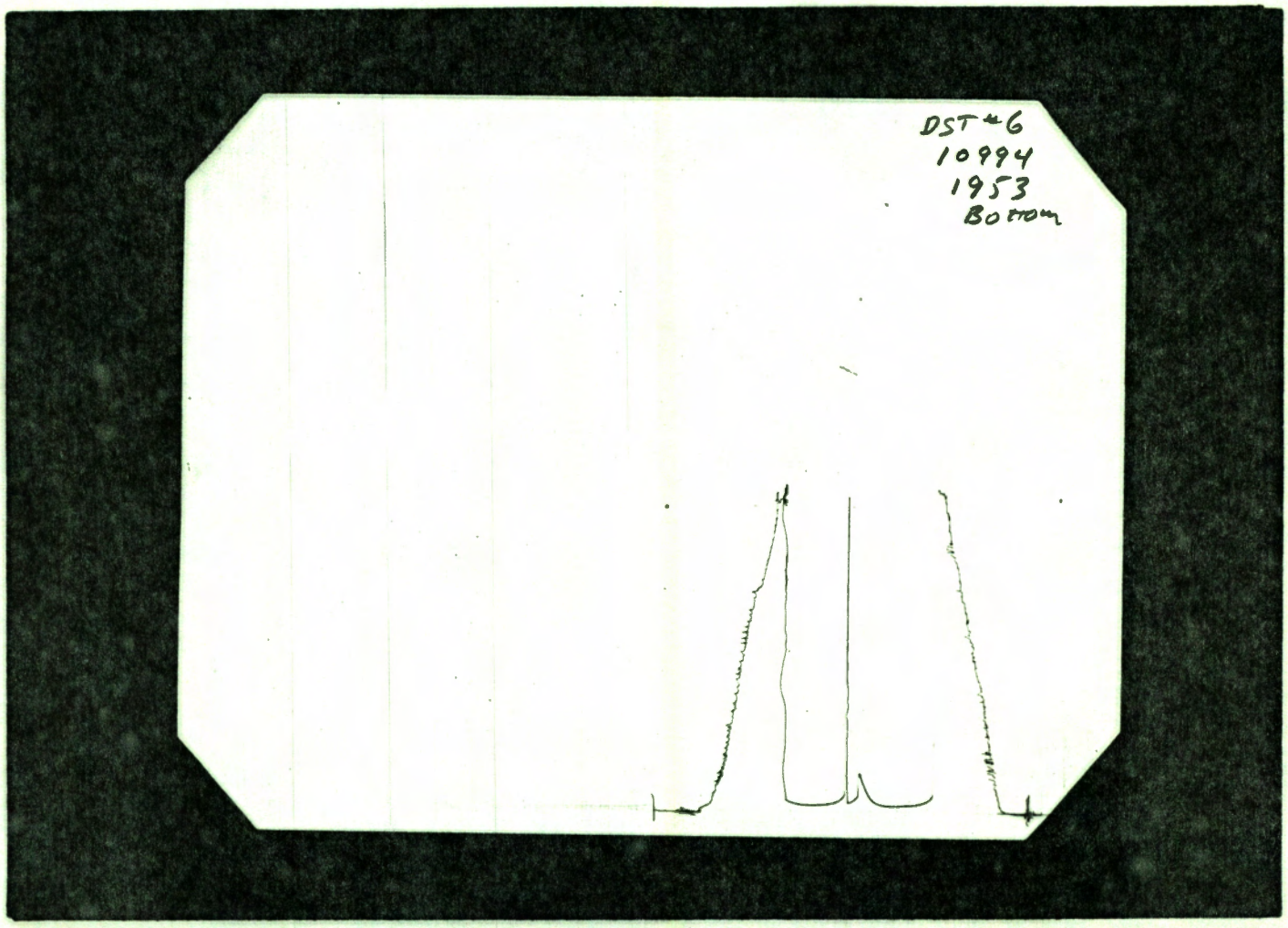
Open Hole Test. Thank You.

Price of Job $660.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,989		PSI
(B)	First Initial Flow Pressure	35		PSI
(C)	First Final Flow Pressure	35		PSI
(D)	Initial Closed-in Pressure	277		PSI
(E)	Second Initial Flow Pressure	35		PSI
(F)	Second Final Flow Pressure	35		PSI
(G)	Final Closed-in Pressure	104		PSI
(H)	Final Hydrostatic Mud	1,966		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

TEST REPORT

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

Test Ticket No. 1954

Company A. Scott Ritchie Date 3-31-82
Company Address Suite 905, 125 N. Market, WichitaKs No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS.
Well Name And Number Carpenter "B" #1 Tester Ken Metzler
Contractor Murfin Drlg. Rig No. 16 Co. Rep. Arden Ratzloff

Formation Arbuckle Zone _____ Type of Test Conventional

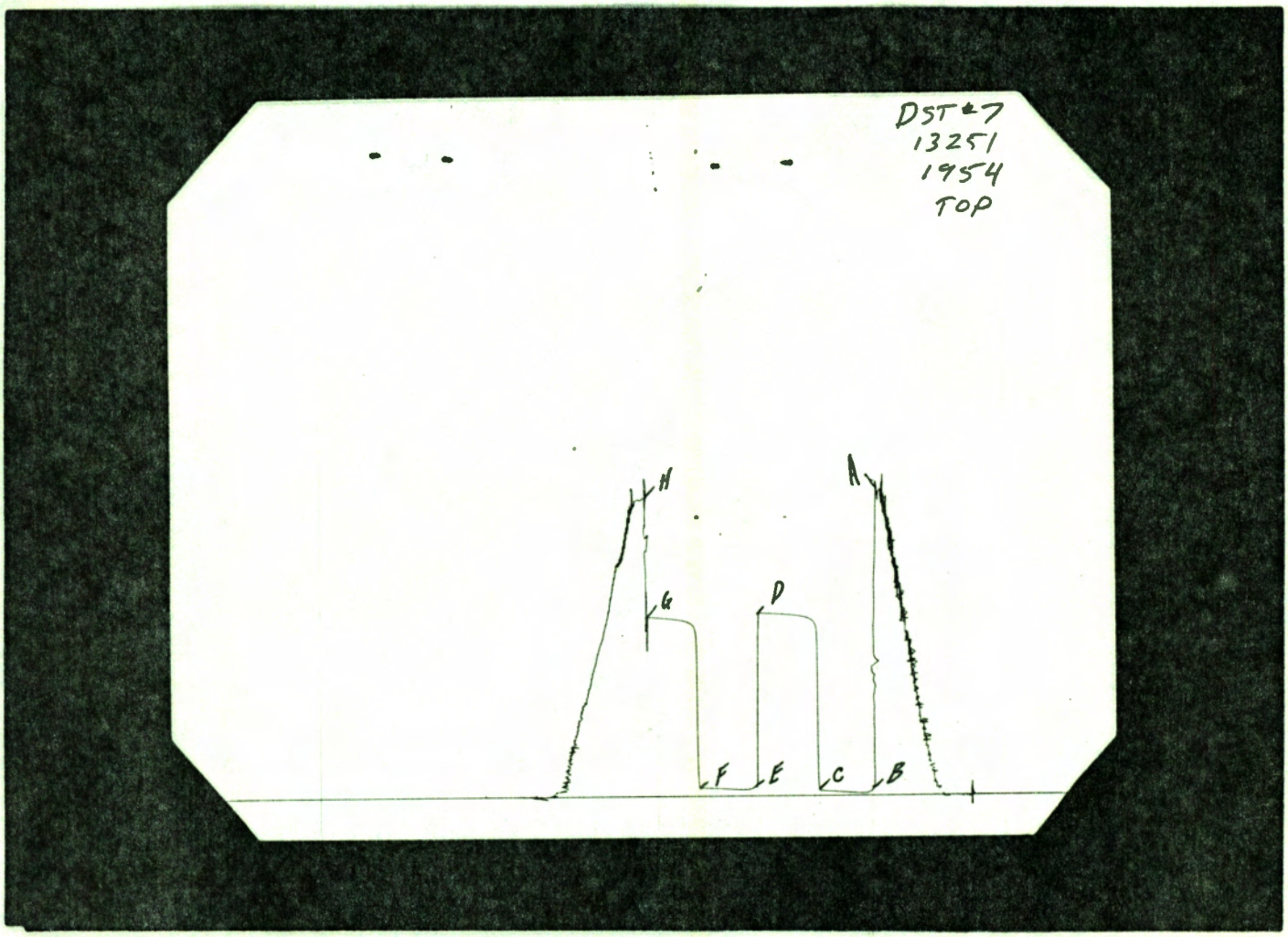
DST# 7 Interval 3854 To 3862 Total Depth 3862
Open 45 Shut In 45 Open 45 Shut In 45
Packer(s) Set 8:12 A.M. P.M. Started off Bottom 11:15 A.M. P.M.
Blow Weak Steady blow through out 1st. open.
Weak steady blow through out 2nd. open.

Recovery
Total Feet 80'
Recovered 80 Ft. of muddy salt water. No show of oil.
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Gravity (Oil) _____ Corrected To Temp. _____ Water Chlorides 41,000

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 2,034 Final Hydrostatic Pressure 2,011
Initial Closed In Pressure 1,180 Final Closed In Pressure 1,158
Initial Flow Pressure 23 To 35 Final Flow Pressure 46 To 58
Test Area Temperature 119

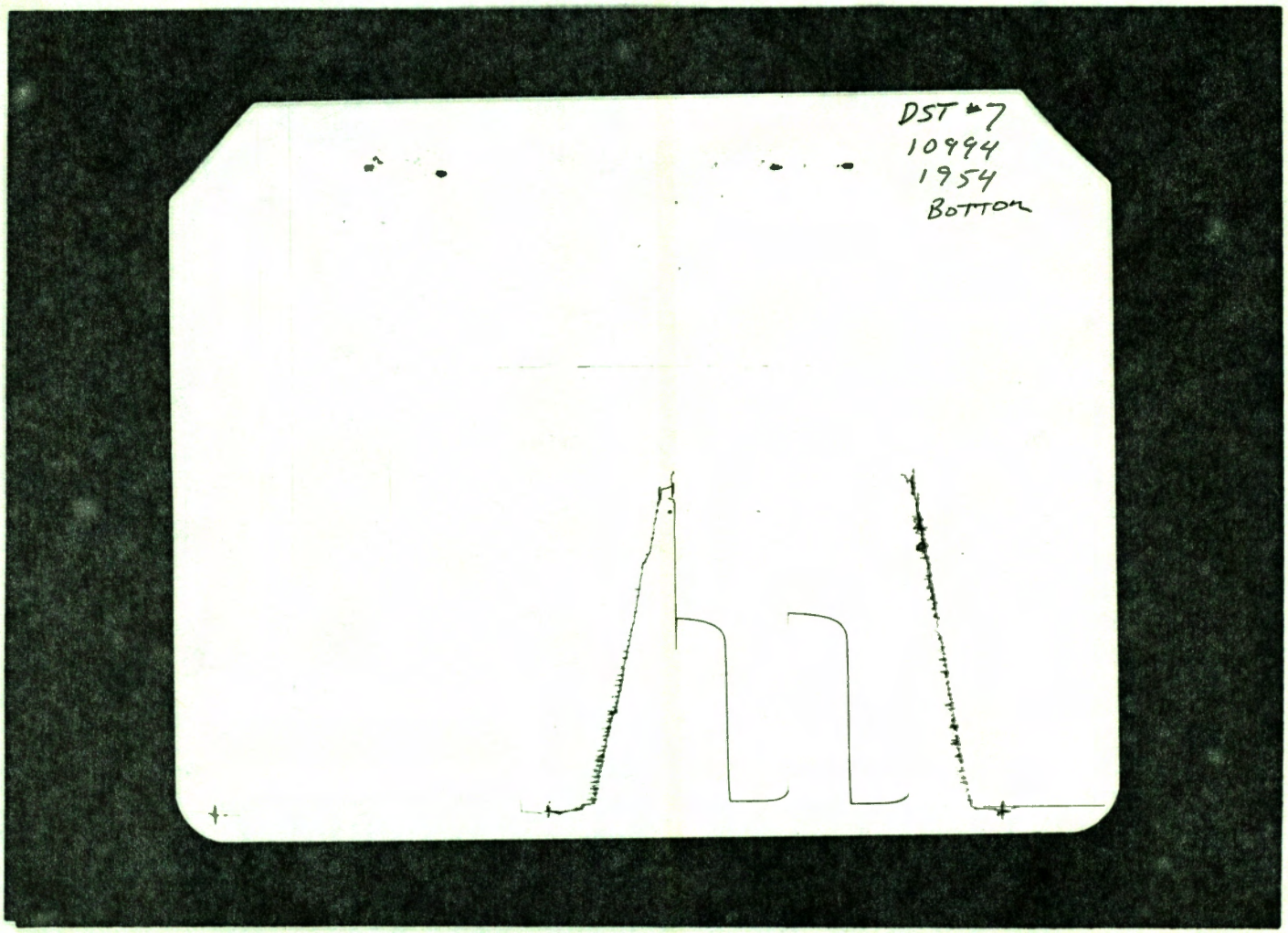
Engineering Date
Elevation 2,173 K.B.
Mud Viscosity 45 Mud Weight 9.5 Water Loss 8.2
Chlorides 31,000 P.P.M. Type of Mud starch Anchor Length 8
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 3,202 I.D. 3.8 In. Weight Pipe Length 603 I.D. 2.76 In.
Drill Collar Length 59 I.D. 2.26 In.
Top Packer Depth. 3,849 Bottom Packer Depth. 3,854 Packer Size 6 3/4
Test Tool Size 5 1/2 In. Tool Joint Size DP 4 1/2 FH D.C.4" H-90 In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 13251 Clock Range No. 21048 12 Hr.
Recorder Type and No. AK-1 10994 Clock Range No. 16067 12 Hr.
Extra Equipment None
Remarks

Open Hole Test. 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	2,034	1,975	PSI
(B)	First Initial Flow Pressure	23	16	PSI
(C)	First Final Flow Pressure	35	35	PSI
(D)	Initial Closed-in Pressure	1,180	1,184	PSI
(E)	Second Initial Flow Pressure	46	39	PSI
(F)	Second Final Flow Pressure	58	56	PSI
(G)	Final Closed-in Pressure	1,158	1,160	PSI
(H)	Final Hydrostatic Mud	2,011	1,939	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 3-31-82 Test Ticket No. 1954

Recorder No. Kuster AK-1 #13251 Capacity 4550 PSI Location 3843 Ft.

Clock No. 21048 Elevation 2,173 K.B. Well Temperature 119 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,975	P.S.I.	Open Tool	8:15 A M	
B	First Initial Flow Pressure	16	P.S.I.	First Flow Pressure	45 Mins.	Mins.
C	First Final Flow Pressure	35	P.S.I.	Initial Closed-in Pressure	45 Mins.	47 Mins.
D	Initial Closed-in Pressure	1,184	P.S.I.	Second Flow Pressure	45 Mins.	46 Mins.
E	Second Initial Flow Pressure	39	P.S.I.	Final Closed-in Pressure	45 Mins.	41 Mins.
F	Second Final Flow Pressure	56	P.S.I.			
G	Final Closed-in Pressure	1,160	P.S.I.			
H	Final Hydrostatic Mud	1,939	P.S.I.			

PRESSURE BREAKDOWN

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: 9 Inc. of 5 mins. and a final inc. of ___ Min.		Breakdown: 9 Inc. of 5 mins. and a final inc. of 2 Min.		Breakdown: 9 Inc. of 5 mins. and a final inc. of 1 Min.		Breakdown: 8 Inc. of 5 mins. and a final inc. of 1 Min.	
Point	Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	16	0	35	0	39	0	56
2	5	16	5	1,140	5	40	5	1,107
3	10	17	10	1,156	10	41	10	1,131
4	15	19	15	1,164	15	43	20	1,140
5	20	23	20	1,171	20	44	25	1,146
6	25	25	25	1,174	25	48	30	1,151
7	30	27	30	1,176	30	49	35	1,155
8	35	29	35	1,179	35	51	40	1,158
9	40	33	40	1,180	40	54	41	1,160
10	45	35	45	1,183	45	56		1,160
11			47	1,184	46	56		
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