TEST REPORT

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

Test Ticket No. 1478

Company A. Scott Ritchie Date 9/23/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Troy Leiker
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lower Topeka Zone _____ Type of Test Conventional

DST# 1 Interval 3,547 To 3,640 Total Depth 3,640
Open 30 11:15 Shut In 45 11:45 Open 30 12:30 Shut In 45 1:00
Packer(s) Set 11:13 A.M. ~~P.M.~~ Started off Bottom 1:45 ~~A.M.~~ P.M.
Blow 1st Open: Weak, steady blow to 3" in bucket.
2nd Open: Weak, steady blow to 2" in bucket.

Recovery
Total Feet 127
Recovered 127 Ft. of Rotary mud
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 1,832 Final Hydrostatic Pressure 1,811
Initial Closed In Pressure 1,221 Final Closed In Pressure 1,199
Initial Flow Pressure 76 To 86 Final Flow Pressure 97 To 119
Test Area Temperature 110

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 41 Mud Weight 9.6 Water Loss 14
Chlorides 27,000 P.P.M. Type of Mud Starch Anchor Length 93'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,526 I.D. 3.8 In. Weight Pipe Length 887 I.D. 2.76 In.
Drill Collar Length 230 I.D. 2.25 In.
Top Packer Depth. _____ Bottom Packer Depth. 3,547 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 10993 Clock Range No. 23935 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23839 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/23/81 Test Ticket No. 1478

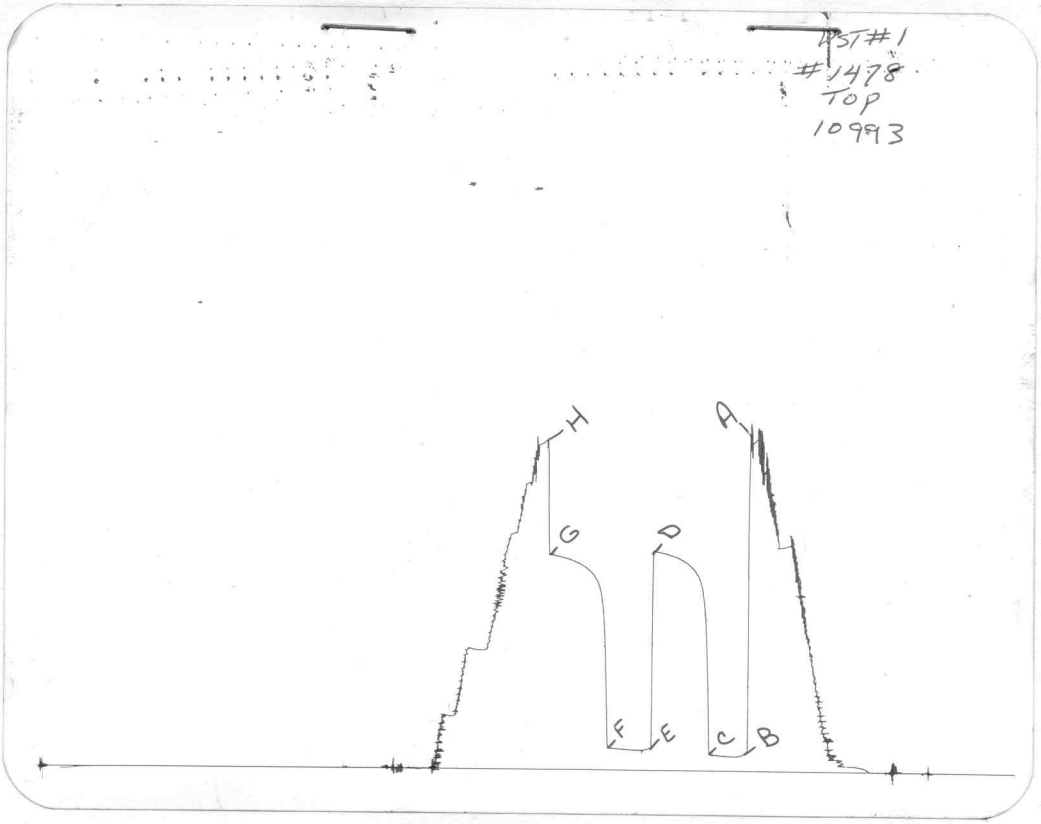
Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,630 Ft.

Clock No. 23935 Elevation 2,380 K.B. Well Temperature 110 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	1,890	P.S.I.	Open Tool	11:15 AM
B First Initial Flow Pressure	78	P.S.I.	First Flow Pressure	30 Mins. 26 Mins.
C First Final Flow Pressure	86	P.S.I.	Initial Closed-in Pressure	45 Mins. 42 Mins.
D Initial Closed-in Pressure	1,225	P.S.I.	Second Flow Pressure	30 Mins. 33 Mins.
E Second Initial Flow Pressure	113	P.S.I.	Final Closed-in Pressure	45 Mins. Mins.
F Second Final Flow Pressure	123	P.S.I.		
G Final Closed-in Pressure	1,206	P.S.I.		
H Final Hydrostatic Mud	1,851	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 5 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 1 Min.		final inc. of 2 Min.		final inc. of 3 Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	78	0	86	0	113	0	123
P 2 5	78	5	997	5	113	5	1,000
P 3 10	78	10	1,107	10	113	10	1,087
P 4 15	78	15	1,148	15	113	15	1,128
P 5 20	82	20	1,175	20	117	20	1,156
P 6 25	82	25	1,195	25	121	25	1,173
P 7 26	86	30	1,210	30	123	30	1,188
P 8		35	1,218	33	123	35	1,195
P 9		40	1,225			40	1,206
P10		42	1,225			45	1,206
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,832	1,890	PSI
(B)	First Initial Flow Pressure	76	78	PSI
(C)	First Final Flow Pressure	86	86	PSI
(D)	Initial Closed-in Pressure	1,221	1,225	PSI
(E)	Second Initial Flow Pressure	97	113	PSI
(F)	Second Final Flow Pressure	119	123	PSI
(G)	Final Closed-in Pressure	1,199	1,206	PSI
(H)	Final Hydrostatic Mud	1,811	1,851	PSI

TEST REPORT

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

Test Ticket No. 1479

Company A. Scott Ritchie Date 9/25/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lansing Zone Top Type of Test Conventional

DST# 2
Interval 3,628 To 3,693 Total Depth 3,693
Open 30 Shut In 45 Open 35 Shut In 40
Packer(s) Set 8:58 ~~A.M.~~ ~~P.M.~~ Started off Bottom 11:30 ~~A.M.~~ ~~P.M.~~
Blow Fair blow throughout both flow periods.

Recovery
Total Feet 245
Recovered 245 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 61,000

DO NOT REMOVE

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,864 Final Hydrostatic Pressure 1,843
Initial Closed In Pressure 1,092 Final Closed In Pressure 1,027
Initial Flow Pressure 65 To 108 Final Flow Pressure 141 To 163
Test Area Temperature 113

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 39 Mud Weight 9.5 Water Loss 14.6
Chlorides 26,000 P.P.M. Type of Mud Starch Anchor Length 65'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,576 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.
Drill Collar Length 187 I.D. 2.25 In.
Top Packer Depth. Bottom Packer Depth. 3,628 Packer Size 6-3/4
Test Tool Size 5-1/2 In. Tool Joint Size 4-1/2 XH-FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/25/81 Test Ticket No. 1479

Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,683 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 113 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	1,903	P.S.I.	Open Tool 9:00 AM	
B First Initial Flow Pressure	73	P.S.I.	First Flow Pressure 30 Mins.	33 Mins.
C First Final Flow Pressure	104	P.S.I.	Initial Closed-in Pressure 45 Mins.	40 Mins.
D Initial Closed-in Pressure	1,085	P.S.I.	Second Flow Pressure 35 Mins.	Mins.
E Second Initial Flow Pressure	145	P.S.I.	Final Closed-in Pressure 40 Mins.	Mins.
F Second Final Flow Pressure	160	P.S.I.		
G Final Closed-in Pressure	1,032	P.S.I.		
H Final Hydrostatic Mud	1,866	P.S.I.		

PRESSURE BREAKDOWN

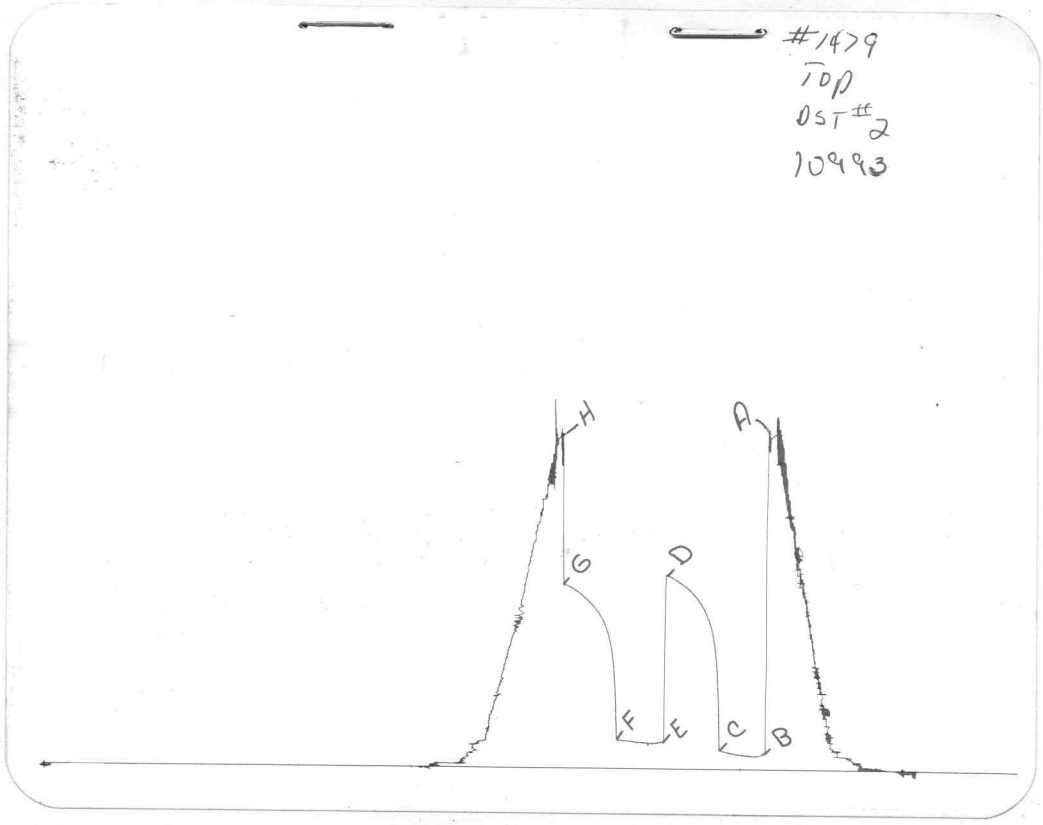
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 3 Min.

Initial Shut-In
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of ____ Min.

Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of ____ Min.

Final Shut-In
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	73		0	104		0	145		0	160
P 2	5	73		5	752		5	145		5	687
P 3	10	73		10	872		10	145		10	816
P 4	15	73		15	946		15	145		15	887
P 5	20	86		20	991		20	150		20	931
P 6	25	93		25	1,023		25	152		25	963
P 7	30	102		30	1,051		30	156		30	995
P 8	33	104		35	1,075		35	160		35	1,019
P 9				40	1,085					40	1,032
P10											
P11											
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,864	1,903	PSI
(B)	First Initial Flow Pressure	65	73	PSI
(C)	First Final Flow Pressure	108	104	PSI
(D)	Initial Closed-in Pressure	1,092	1,085	PSI
(E)	Second Initial Flow Pressure	141	145	PSI
(F)	Second Final Flow Pressure	163	160	PSI
(G)	Final Closed-in Pressure	1,027	1,032	PSI
(H)	Final Hydrostatic Mud	1,843	1,866	PSI

DRILL STEM TEST RECOVERY ANALYSIS

CRUDE OIL TESTING INC

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

COMPANY: A. Scott Ritchie
SEC: 2 Twp: 12S Rge: 22W
LEASE: #1 Pfannenstiel "A"
COUNTY: Trego
DST# 2 #1479
STATE: KS

VISUAL DST RECOVERY: 245' Muddy water

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	5			60	40
2	120			55	45
3	60			60	40
4	60			55	45

CALCULATED FLUID RECOVERY FROM PERCENTAGES

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

SAMPLE #	TOTAL FOOTAGE	GAS					OIL					WATER					MUD				
		%	×	Total	=	Feet	%	×	Total	=	Feet	%	×	Total	=	Feet	%	×	Total	=	Feet
1	5		×		=			×		=		60	×	5	=	3	40	×	5	=	2
2	120		×		=			×		=		55	×	120	=	66	45	×	120	=	54
3	60		×		=			×		=		60	×	60	=	36	40	×	60	=	24
4	60		×		=			×		=		55	×	60	=	33	45	×	60	=	27
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
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			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals																138					107

CALCULATED DST RECOVERY =

GAS 0'
OIL 0
WTR 138
MUD 107
TOTAL FLUID 245'

CHLORIDES MUD SYSTEM 26,000
CHLORIDES DST WATER 61,000
GRAVITY OF OIL

TEST REPORT

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

Test Ticket No. 1480

Company A. Scott Ritchie Date 9/26/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lansing Zone 35' - 50' Type of Test Conventional

DST# 3
Interval 3,693 To 3,738 Total Depth 3,738
Open 30 Shut In 30 Open 30 Shut In 30
Packer(s) Set 2:43 ~~A.M.~~ P.M. Started off Bottom 4:45 ~~A.M.~~ P.M.
Blow Strong blow throughout both flow periods.

Recovery
Total Feet 510
Recovered 510 Ft. of Salt water
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of
Gravity (Oil) Corrected To Temp. Water Chlorides 79,000

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,896 Final Hydrostatic Pressure 1,875
Initial Closed In Pressure 898 Final Closed In Pressure 887
Initial Flow Pressure 65 To 163 Final Flow Pressure 217 To 271
Test Area Temperature 114

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 39 Mud Weight 9.5 Water Loss 14.6
Chlorides 26,000 P.P.M. Type of Mud Starch Anchor Length 45'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,621 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.
Drill Collar Length 187 I.D. 2.25 In.
Top Packer Depth. 3,693 Bottom Packer Depth. Packer Size 6-3/4
Test Tool Size 5-1/2 In. Tool Joint Size 4-1/2 XH-FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/26/81 Test Ticket No. 1480

Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,728 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 114 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1,907	P.S.I.
B	First Initial Flow Pressure	71	P.S.I.
C	First Final Flow Pressure	167	P.S.I.
D	Initial Closed-in Pressure	899	P.S.I.
E	Second Initial Flow Pressure	217	P.S.I.
F	Second Final Flow Pressure	267	P.S.I.
G	Final Closed-in Pressure	886	P.S.I.
H	Final Hydrostatic Mud	1,854	P.S.I.

	Field Time	Time Computed
Open Tool	2:45 AM	
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

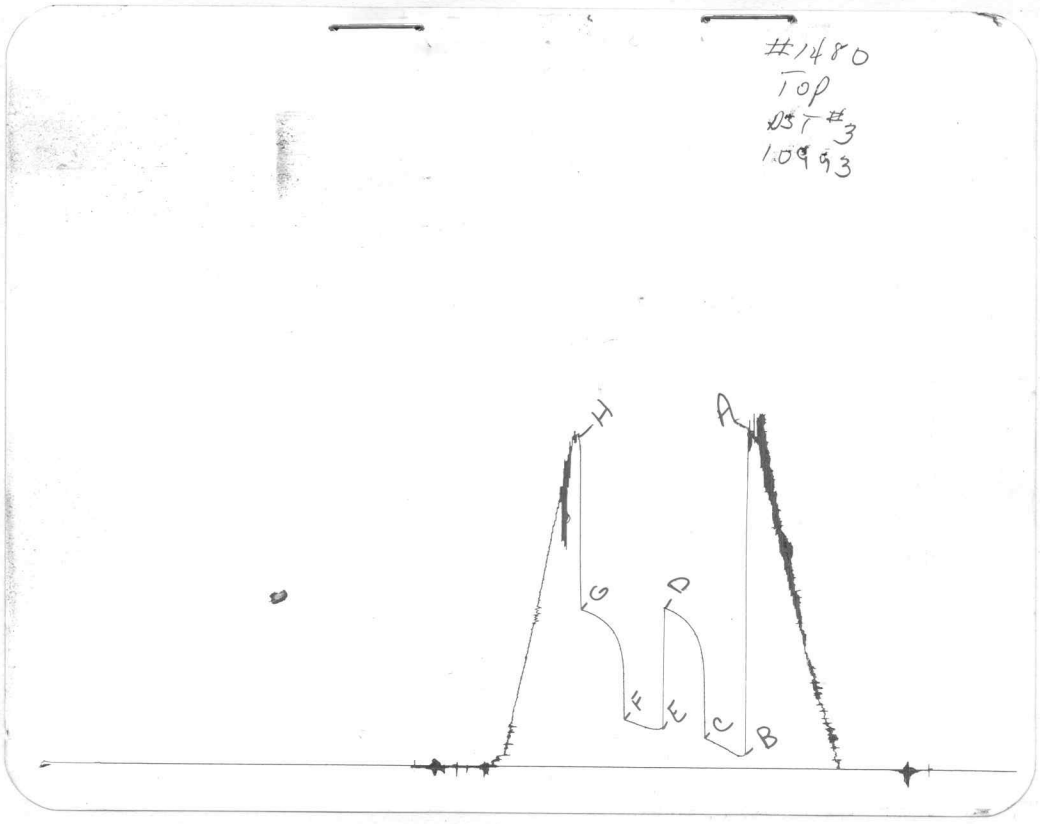
First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

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

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

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

Point	First Flow Pressure Mins.	Press.	Initial Shut-In Point Minutes	Press.	Second Flow Pressure Point Minutes	Press.	Final Shut-In Point Minutes	Press.
P 1	0	71	0	167	0	217	0	267
P 2	5	71	5	728	5	217	5	739
P 3	10	91	10	797	10	217	10	795
P 4	15	113	15	840	15	228	15	829
P 5	20	134	20	870	20	245	20	855
P 6	25	152	25	887	25	258	25	872
P 7	30	167	30	899	30	267	30	886
P 8								
P 9								
P10								
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,896	1,907	PSI
(B)	First Initial Flow Pressure	65	71	PSI
(C)	First Final Flow Pressure	163	167	PSI
(D)	Initial Closed-in Pressure	898	899	PSI
(E)	Second Initial Flow Pressure	217	217	PSI
(F)	Second Final Flow Pressure	271	267	PSI
(G)	Final Closed-in Pressure	887	886	PSI
(H)	Final Hydrostatic Mud	1,875	1,854	PSI

TEST REPORT

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

Test Ticket No. 1481

Company A. Scott Ritchie Date 9/26/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lansing Zone 70' Type of Test Conventional

DST# 4 Interval 3,736 To 3,754 Total Depth 3,754
Open 30 Shut In 35 Open 25 Shut In 30
Packer(s) Set 4:13 ~~XXX~~ P.M. Started off Bottom 6:15 ~~XXX~~ P.M.
Blow 1st Open: Very weak blow. Died in 12 mins.
2nd Open: No blow.

Recovery
Total Feet 15
Recovered 15 Ft. of Drilling 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 1,918 Final Hydrostatic Pressure 1,896
Initial Closed In Pressure 887 Final Closed In Pressure 747
Initial Flow Pressure 43 To 43 Final Flow Pressure 43 To 43
Test Area Temperature 112

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 39 Mud Weight 9.7 Water Loss 16
Chlorides 45,000 P.P.M. Type of Mud Starch Anchor Length 18'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,637 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.
Drill Collar Length 187 I.D. 2.25 In.
Top Packer Depth. 3,736 Bottom Packer Depth. Packer Size 6-3/4
Test Tool Size 5-1/2 In. Tool Joint Size 4-1/2 XH-FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/26/81 Test Ticket No. 1481

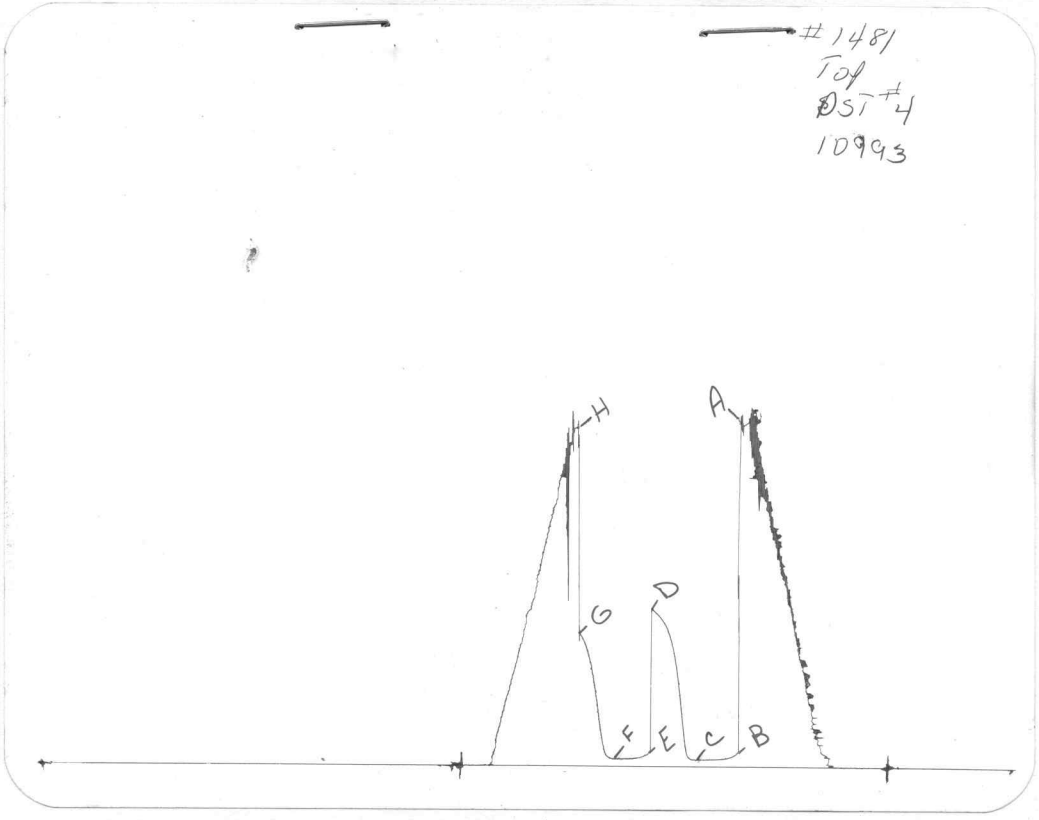
Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,744 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 112 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	1,929	P.S.I.	Open Tool 4:15 P M	
B First Initial Flow Pressure	35	P.S.I.	First Flow Pressure 30 Mins.	Mins.
C First Final Flow Pressure	35	P.S.I.	Initial Closed-in Pressure 35 Mins.	Mins.
D Initial Closed-in Pressure	883	P.S.I.	Second Flow Pressure 25 Mins.	Mins.
E Second Initial Flow Pressure	38	P.S.I.	Final Closed-in Pressure 30 Mins.	28 Mins.
F Second Final Flow Pressure	38	P.S.I.		
G Final Closed-in Pressure	743	P.S.I.		
H Final Hydrostatic Mud	1,896	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 7 Inc.		Breakdown: 5 Inc.		Breakdown: 5 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 3 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	35	0	35	0	38	0	38
P 2 5	35	5	35	5	38	5	45
P 3 10	35	10	163	10	38	10	128
P 4 15	35	15	543	15	38	15	395
P 5 20	35	20	726	20	38	20	607
P 6 25	35	25	814	25	38	25	721
P 7 30	35	30	859			28	743
P 8		35	883				
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,918	1,929	PSI
(B)	First Initial Flow Pressure	43	35	PSI
(C)	First Final Flow Pressure	43	35	PSI
(D)	Initial Closed-in Pressure	887	883	PSI
(E)	Second Initial Flow Pressure	43	38	PSI
(F)	Second Final Flow Pressure	43	38	PSI
(G)	Final Closed-in Pressure	747	743	PSI
(H)	Final Hydrostatic Mud	1,896	1,896	PSI

TEST REPORT

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

CRUDE OIL TESTING INC.

Test Ticket No. 1482

Company A. Scott Ritchie Date 9/27/81

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

Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS

Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis

Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lansing Zone 90' - 100' Type of Test Conventional

DST# 5 Interval 3,572 To 3,792 Total Depth 3,792

Open ____ Shut In ____ Open ____ Shut In ____

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

Blow ____

Recovery

Total Feet ____

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 ____ 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 2,380 K.B.

Mud Viscosity 39 Mud Weight 9.7 Water Loss 16

Chlorides 45,000 P.P.M. Type of Mud Starch Anchor Length 40'

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

Drill Pipe Length 2,675 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.

Drill Collar Length 187 I.D. 2.25 In.

Top Packer Depth. 3,752 Bottom Packer Depth. ____ Packer Size 6-3/4

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

Did Well Flow No Reversed Out No

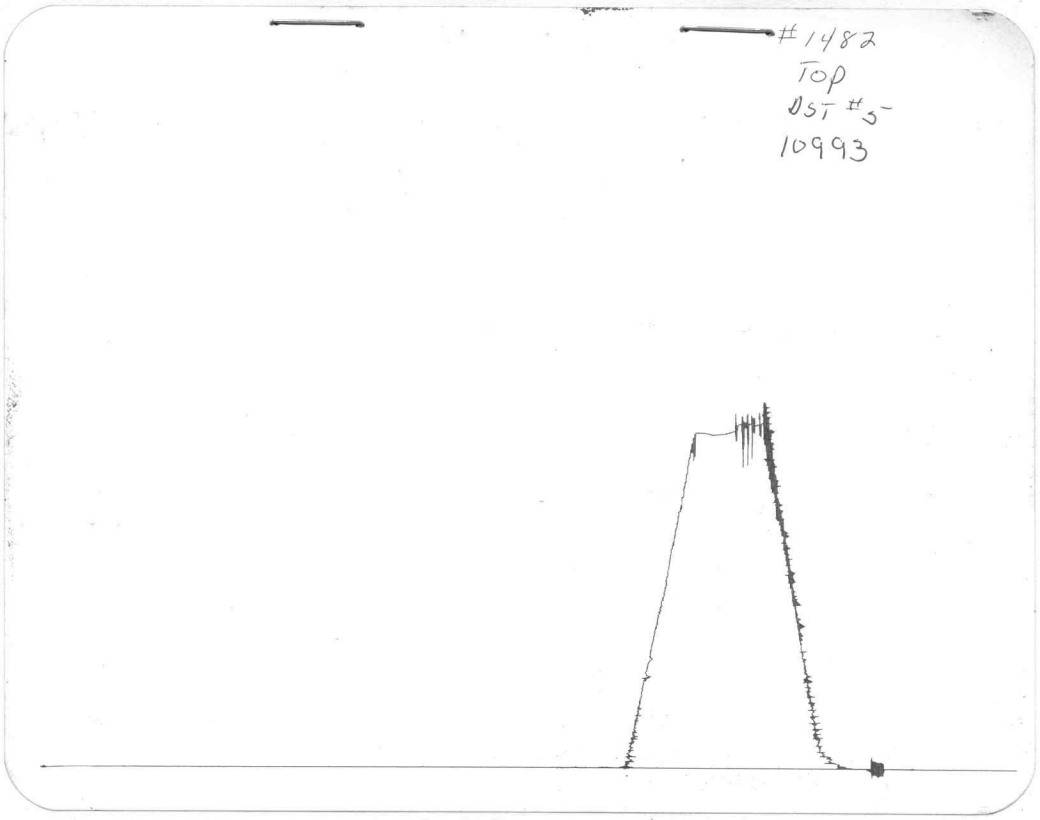
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.

Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.

Extra Equipment None. Single, conventional packer used.

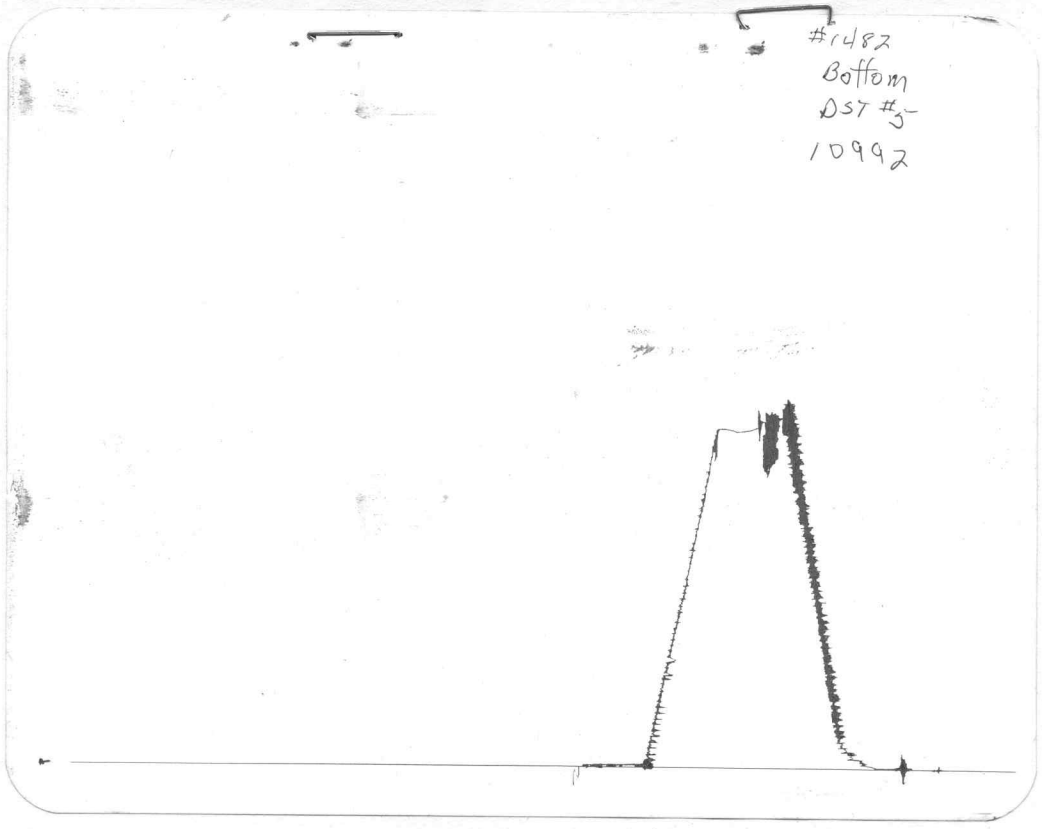
Remarks Packer Failure.
Open Hole Test. Mis-Run. Thank You.

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



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

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

CRUDE OIL TESTING INC.

Test Ticket No. 1494

Company A. Scott Ritchie Date 9/27/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Lansing Zone 90' - 100' Type of Test Conventional

DST# 6
Interval 3,748 To 3,792 Total Depth 3,792
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 12:28 ~~A.M.~~ P.M. Started off Bottom 3:00 ~~A.M.~~ P.M.
Blow 1st Open: Weak, increasing to fair, blow.
2nd Open: Fair blow.

Recovery
Total Feet 362
Recovered 362 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 69,000

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,950 Final Hydrostatic Pressure 1,929
Initial Closed In Pressure 974 Final Closed In Pressure 952
Initial Flow Pressure 97 To 130 Final Flow Pressure 184 To 217
Test Area Temperature 116

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 37 Mud Weight 9.6 Water Loss 20.4
Chlorides 45,000 P.P.M. Type of Mud Starch Anchor Length 44'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,675 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.
Drill Collar Length 187 I.D. 2.25 In.
Top Packer Depth. 3,748 Bottom Packer Depth. Packer Size 6-3/4
Test Tool Size 5-1/2 In. Tool Joint Size 4-1/2 XH-FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Tool slid approximately 12' to bottom.

Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/27/81 Test Ticket No. 1494

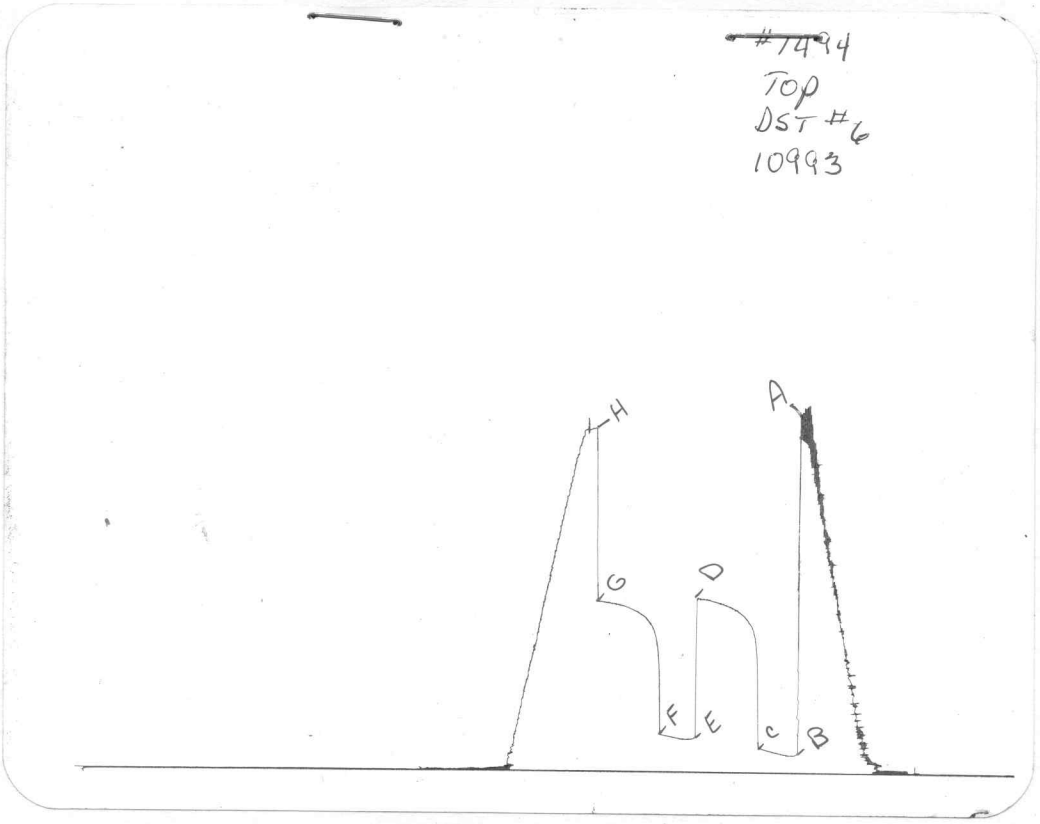
Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,782 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 116 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	2,006	P.S.I.	Open Tool 12:30 P M	
B First Initial Flow Pressure	97	P.S.I.	First Flow Pressure 30 Mins.	Mins.
C First Final Flow Pressure	136	P.S.I.	Initial Closed-in Pressure 45 Mins.	Mins.
D Initial Closed-in Pressure	978	P.S.I.	Second Flow Pressure 30 Mins.	26 Mins.
E Second Initial Flow Pressure	182	P.S.I.	Final Closed-in Pressure 45 Mins.	Mins.
F Second Final Flow Pressure	206	P.S.I.		
G Final Closed-in Pressure	954	P.S.I.		
H Final Hydrostatic Mud	1,924	P.S.I.		

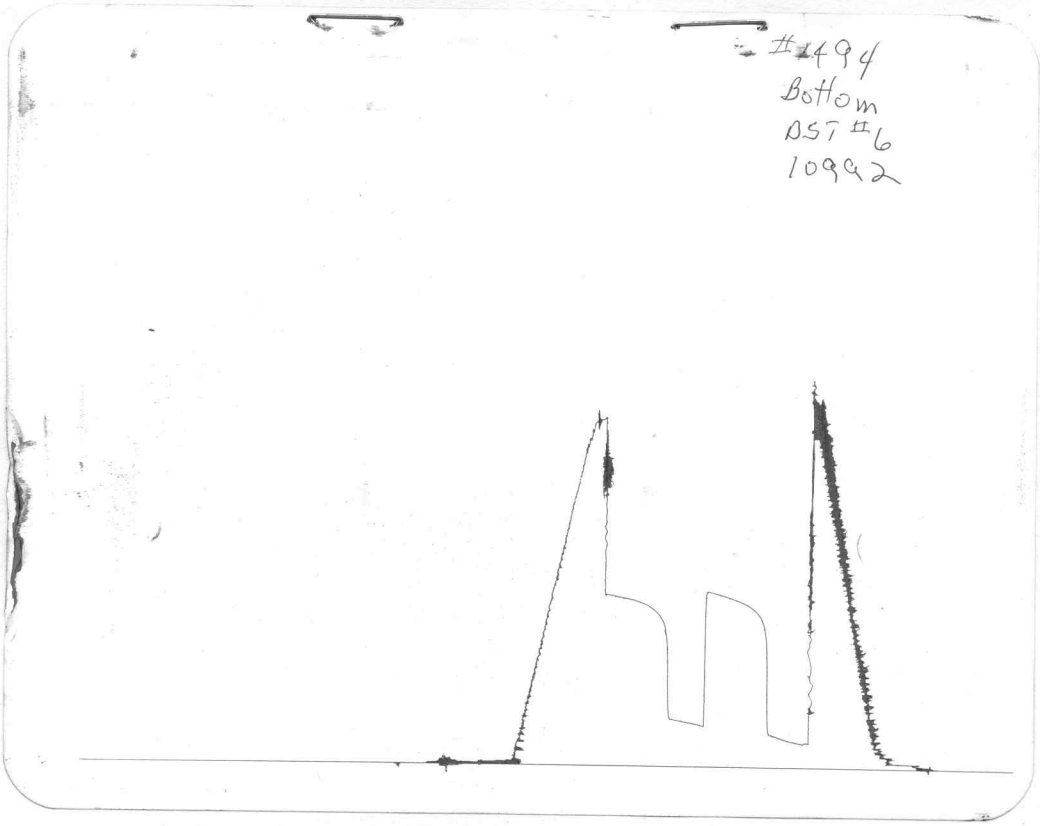
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 9 Inc.		Breakdown: 5 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 1 Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	97	0	136	0	182	0	206
P 2 5	97	5	821	5	182	5	806
P 3 10	97	10	872	10	182	10	862
P 4 15	110	15	905	15	189	15	890
P 5 20	119	20	926	20	200	20	909
P 6 25	128	25	941	25	206	25	928
P 7 30	136	30	954	26	206	30	937
P 8		35	967			35	946
P 9		40	976			40	952
P10		45	978			45	954
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,950	2,006	PSI
(B)	First Initial Flow Pressure	97	97	PSI
(C)	First Final Flow Pressure	130	136	PSI
(D)	Initial Closed-in Pressure	974	978	PSI
(E)	Second Initial Flow Pressure	184	182	PSI
(F)	Second Final Flow Pressure	217	206	PSI
(G)	Final Closed-in Pressure	952	954	PSI
(H)	Final Hydrostatic Mud	1,929	1,924	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

DRILL STEM TEST RECOVERY ANALYSIS

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

COMPANY: A. Scott Ritchie
LEASE: #1 Pfannenstiel "A"
DST# 6 #1494
SEC: 2 Twp: 12S Rge: 22W
COUNTY: Trego
STATE: KS

VISUAL DST RECOVERY: 362' Muddy salt water

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	2			50	50
2	120			45	55
3	120			65	35
4	120			75	25

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	2		×		=			×		=		50	×	2	=	1	50	×	2	=	1
2	120		×		=			×		=		45	×	120	=	54	55	×	120	=	66
3	120		×		=			×		=		65	×	120	=	78	35	×	120	=	42
4	120		×		=			×		=		75	×	120	=	90	25	×	120	=	30
Totals																223					139

CALCULATED DST RECOVERY =

GAS 0'
OIL 0
WTR 223
MUD 139
TOTAL FLUID 362'

CHLORIDES MUD SYSTEM 45,000
CHLORIDES DST WATER 69,000
GRAVITY OF OIL

TEST REPORT

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

CRUDE OIL TESTING INC.

Test Ticket No. 1495

Company A. Scott Ritchie Date 9/28/81
Company Address 125 N. Market, Wichita, KS No. of Charts 5
Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS
Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis
Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

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

DST# 7
Interval 3,786 To 3,866 Total Depth 3,866
Open 30 Shut In 35 Open 25 Shut In 30
Packer(s) Set 10:13 ~~A.M.~~ ~~P.M.~~ Started off Bottom 12:15 ~~A.M.~~ ~~P.M.~~
Blow 1st Open: Very weak blow. Died in 5 mins.
2nd Open: No blow.

Recovery
Total Feet 4
Recovered 4 Ft. of Drilling 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 1,961 Final Hydrostatic Pressure 1,939
Initial Closed In Pressure 326 Final Closed In Pressure 108
Initial Flow Pressure 54 To 54 Final Flow Pressure 54 To 54
Test Area Temperature 110

Engineering Date
Elevation 2,380 K.B.
Mud Viscosity 41 Mud Weight 9.6 Water Loss 12.6
Chlorides 36,000 P.P.M. Type of Mud Starch Anchor Length 80'
Hole Size 7-7/8 Casing Size 8-5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,749 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.
Drill Collar Length 187 I.D. 2.25 In.
Top Packer Depth. 3,786 Bottom Packer Depth. Packer Size 6-3/4
Test Tool Size 5-1/2 In. Tool Joint Size 4-1/2 XH-FH In.
Did Well Flow No Reversed Out No
Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.
Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.
Extra Equipment None. Single, conventional packer used.
Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/28/81 Test Ticket No. 1495

Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,856 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 110 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	1,965	P.S.I.	Open Tool	10:15 AM	
B	First Initial Flow Pressure	56	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	56	P.S.I.	Initial Closed-in Pressure	35 Mins.	Mins.
D	Initial Closed-in Pressure	319	P.S.I.	Second Flow Pressure	25 Mins.	Mins.
E	Second Initial Flow Pressure	62	P.S.I.	Final Closed-in Pressure	30 Mins.	28 Mins.
F	Second Final Flow Pressure	62	P.S.I.			
G	Final Closed-in Pressure	110	P.S.I.			
H	Final Hydrostatic Mud	1,972	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	56
P 2 5	56
P 3 10	56
P 4 15	56
P 5 20	56
P 6 25	56
P 7 30	56
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of ____ Min.

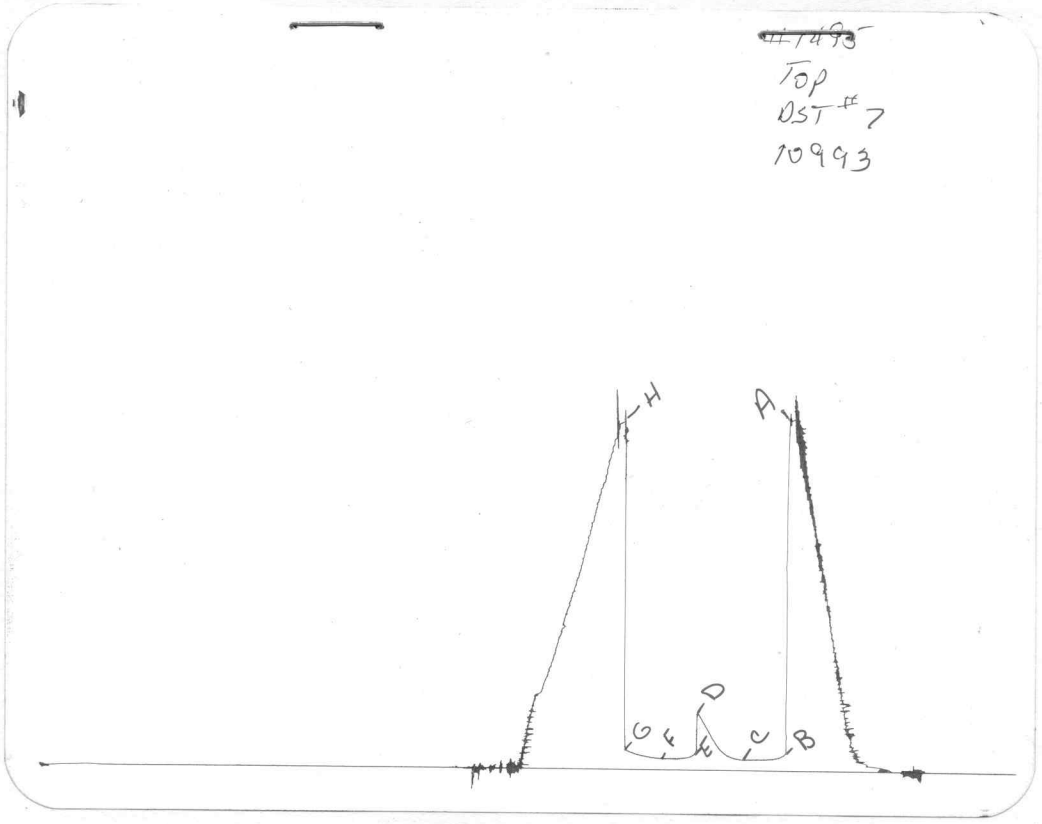
Point Minutes	Press.
0	56
5	56
10	67
15	92
20	130
25	189
30	256
35	319

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

Point Minutes	Press.
0	62
5	62
10	62
15	62
20	62
25	62

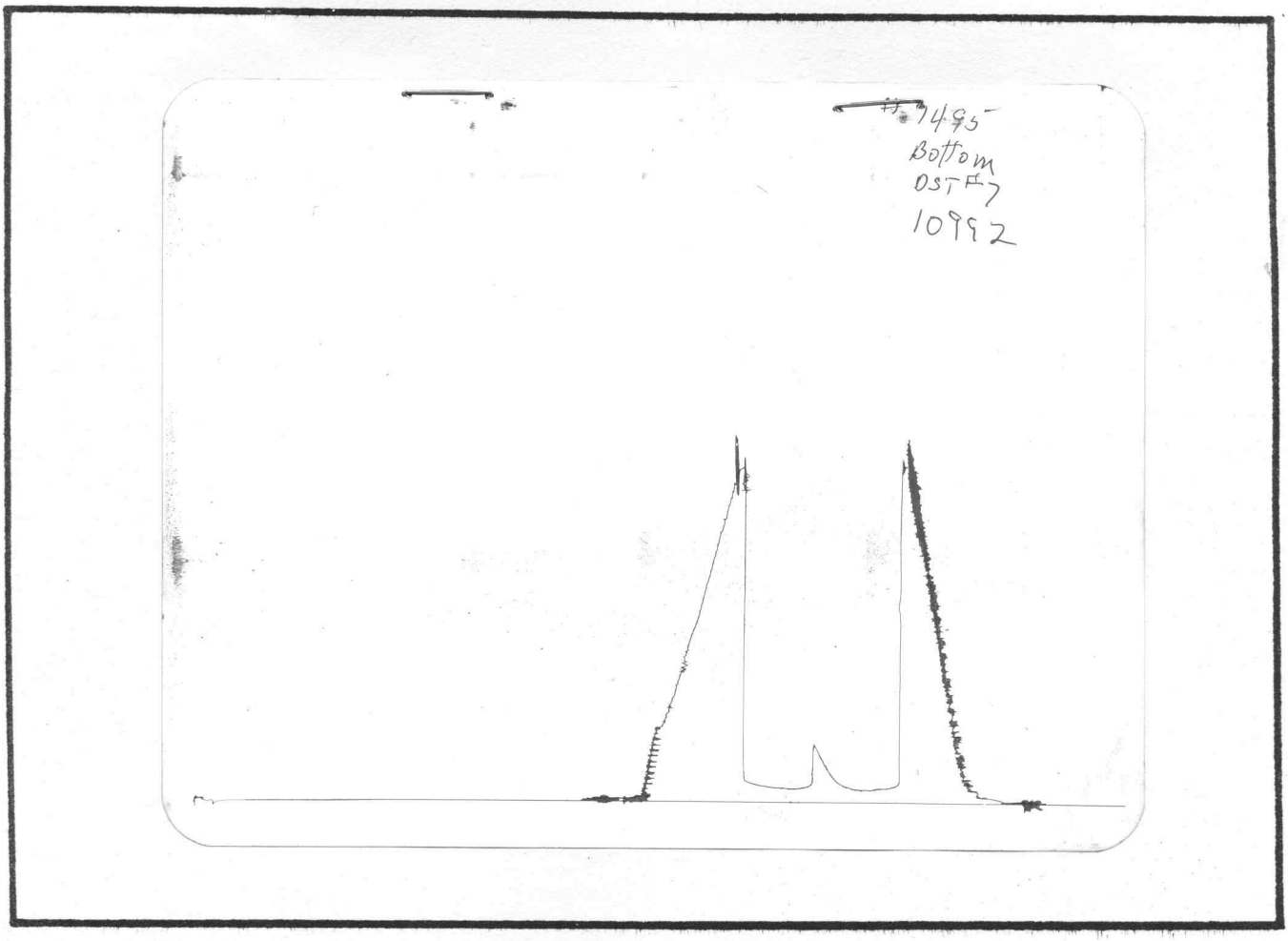
Final Shut-In
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 3 Min.

Point Minutes	Press.
0	62
5	62
10	69
15	76
20	86
25	102
28	110



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,961	1,965	PSI
(B)	First Initial Flow Pressure	54	56	PSI
(C)	First Final Flow Pressure	54	56	PSI
(D)	Initial Closed-in Pressure	326	319	PSI
(E)	Second Initial Flow Pressure	54	62	PSI
(F)	Second Final Flow Pressure	54	62	PSI
(G)	Final Closed-in Pressure	108	110	PSI
(H)	Final Hydrostatic Mud	1,939	1,972	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. 1496

Company A. Scott Ritchie Date 9/29/81

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

Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS

Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis

Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

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

DST# 8

Interval 3,864 To 3,929 Total Depth 3,929

Open 30 Shut In 30 Open 30 Shut In 30

Packer(s) Set 5:58 ~~A.M.~~ ~~P.M.~~ Started off Bottom 8:00 ~~A.M.~~ ~~P.M.~~

Blow 1st Open: Very weak blow. Died in 12 mins.

2nd Open: No blow.

Recovery

Total Feet 65

Recovered 65 Ft. of Drilling 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 1,972 Final Hydrostatic Pressure 1,950

Initial Closed In Pressure 1,145 Final Closed In Pressure 1,092

Initial Flow Pressure 65 To 65 Final Flow Pressure 76 To 76

Test Area Temperature 118

Engineering Date

Elevation 2,380 K.B.

Mud Viscosity 41 Mud Weight 9.6 Water Loss 12.6

Chlorides 36,000 P.P.M. Type of Mud Starch Anchor Length 65'

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

Drill Pipe Length 2,812 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.

Drill Collar Length 187 I.D. 2.25 In.

Top Packer Depth. 3,864 Bottom Packer Depth. Packer Size 6-3/4

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

Did Well Flow No Reversed Out No

Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.

Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.

Extra Equipment None. Single, conventional packer used.

Remarks Open Hole Test. Thank You.

Price of Job $660.00

CRUDE OIL TESTING COMPANY

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

Date 9/29/81 Test Ticket No. 1496

Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 3,919 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 118 °F

Point		Pressure			Field Time	Time Computed
A	Initial Hydrostatic Mud	2,029 P.S.I.		Open Tool	6:00 AM	
B	First Initial Flow Pressure	65 P.S.I.		First Flow Pressure	30 Mins.	33 Mins.
C	First Final Flow Pressure	65 P.S.I.		Initial Closed-in Pressure	30 Mins.	28 Mins.
D	Initial Closed-in Pressure	1,141 P.S.I.		Second Flow Pressure	30 Mins.	Mins.
E	Second Initial Flow Pressure	83 P.S.I.		Final Closed-in Pressure	30 Mins.	Mins.
F	Second Final Flow Pressure	83 P.S.I.				
G	Final Closed-in Pressure	1,105 P.S.I.				
H	Final Hydrostatic Mud	2,029 P.S.I.				

PRESSURE BREAKDOWN

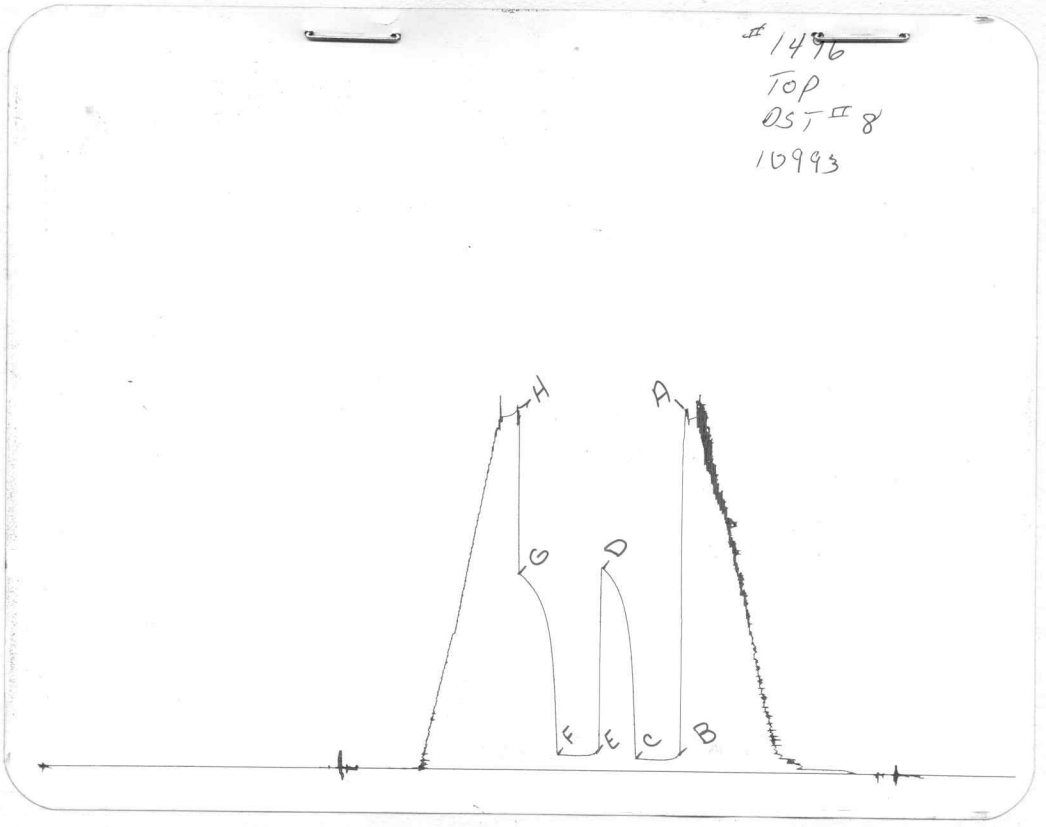
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of Min.

Initial Shut-In
Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 3 Min.

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

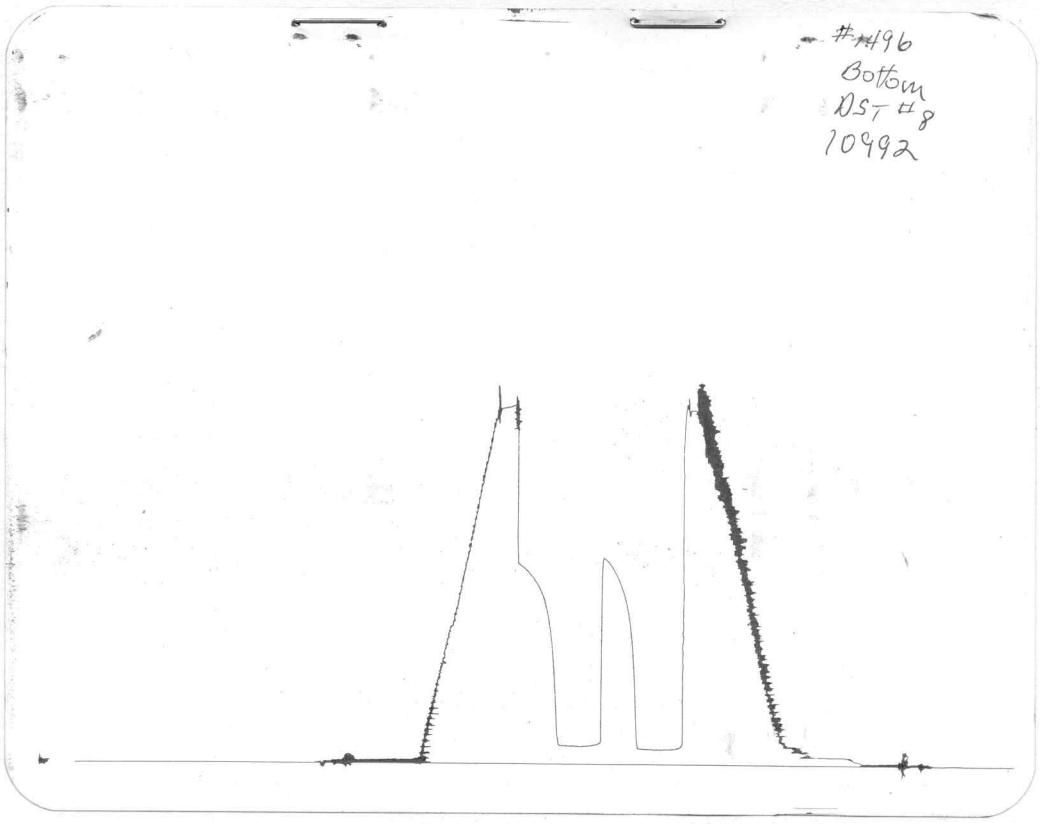
Final Shut-In
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	65		0	65		0	83		0	83
P 2	5	65		5	726		5	83		5	644
P 3	10	65		10	924		10	83		10	859
P 4	15	65		15	1,034		15	83		15	961
P 5	20	65		20	1,094		20	83		20	1,027
P 6	25	65		25	1,137		25	83		25	1,070
P 7	30	65		28	1,141		30	83		30	1,105
P 8	33	65									
P 9											
P10											
P11											
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,972	2,029	PSI
(B)	First Initial Flow Pressure	65	65	PSI
(C)	First Final Flow Pressure	65	65	PSI
(D)	Initial Closed-in Pressure	1,145	1,141	PSI
(E)	Second Initial Flow Pressure	76	83	PSI
(F)	Second Final Flow Pressure	76	83	PSI
(G)	Final Closed-in Pressure	1,092	1,105	PSI
(H)	Final Hydrostatic Mud	1,950	2,029	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

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

CRUDE OIL TESTING INC.

Test Ticket No. 1497

Company A. Scott Ritchie Date 9/30/81

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

Location: Sec. 2 Twp. 12S Rge. 22W Co. Trego State KS

Well Name And Number #1 Pfannenstiel "A" Tester Rod Lewis

Contractor Murfin Drlg. Rig No. #15 Co. Rep. Galen Babcock

Formation Marmaton Zone _____ Type of Test Conventional

DST# 9

Interval 3,993 To 4,040 Total Depth 4,040

Open 30 Shut In 30 Open 30 Shut In 30

Packer(s) Set 6:28 ~~A.M.~~ P.M. Started off Bottom 8:30 ~~A.M.~~ P.M.

Blow 1st Open: Very weak blow. Died in 8 mins.

2nd Open: No blow.

Recovery

Total Feet 15

Recovered 15 Ft. of Drilling mud with few oil specks

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 2,111 Final Hydrostatic Pressure 2,089

Initial Closed In Pressure 887 Final Closed In Pressure 769

Initial Flow Pressure 43 To 43 Final Flow Pressure 54 To 54

Test Area Temperature 114

Engineering Date

Elevation 2,380 K.B.

Mud Viscosity 43 Mud Weight 9.6 Water Loss 12

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 2,923 I.D. 3.8 In. Weight Pipe Length 890 I.D. 2.76 In.

Drill Collar Length 187 I.D. 2.25 In.

Top Packer Depth. 3,993 Bottom Packer Depth. _____ Packer Size 6-3/4

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

Did Well Flow No Reversed Out No

Recorder Type and No. AK-1 10993 Clock Range No. 23839 12 Hr.

Recorder Type and No. AK-1 10992 Clock Range No. 23935 12 Hr.

Extra Equipment None. Single, conventional packer used.

Remarks Open Hole Test. Thank You.

Price of Job $715.00

CRUDE OIL TESTING COMPANY

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

Date 9/30/81 Test Ticket No. 1497

Recorder No. Kuster AK-1 10993 Capacity 4,250 PSI Location 4,030 Ft.

Clock No. 23839 Elevation 2,380 K.B. Well Temperature 114 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	2,104	P.S.I.	Open Tool 6:30 PM	
B First Initial Flow Pressure	45	P.S.I.	First Flow Pressure 30 Mins.	33 Mins.
C First Final Flow Pressure	45	P.S.I.	Initial Closed-in Pressure 30 Mins.	28 Mins.
D Initial Closed-in Pressure	887	P.S.I.	Second Flow Pressure 30 Mins.	Mins.
E Second Initial Flow Pressure	54	P.S.I.	Final Closed-in Pressure 30 Mins.	35 Mins.
F Second Final Flow Pressure	54	P.S.I.		
G Final Closed-in Pressure	771	P.S.I.		
H Final Hydrostatic Mud	2,083	P.S.I.		

PRESSURE BREAKDOWN

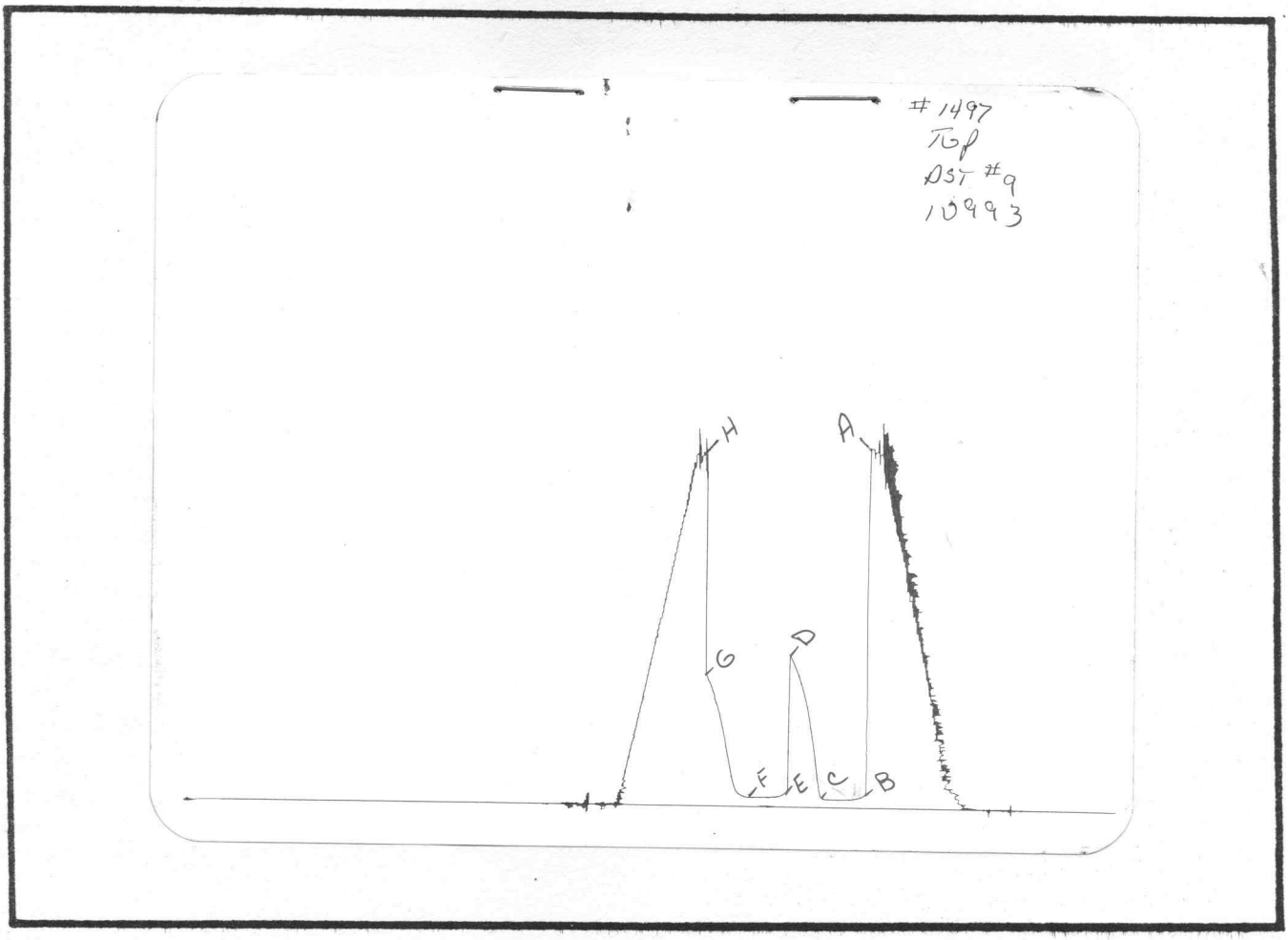
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 3 Min.

Initial Shut-In
Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 3 Min.

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

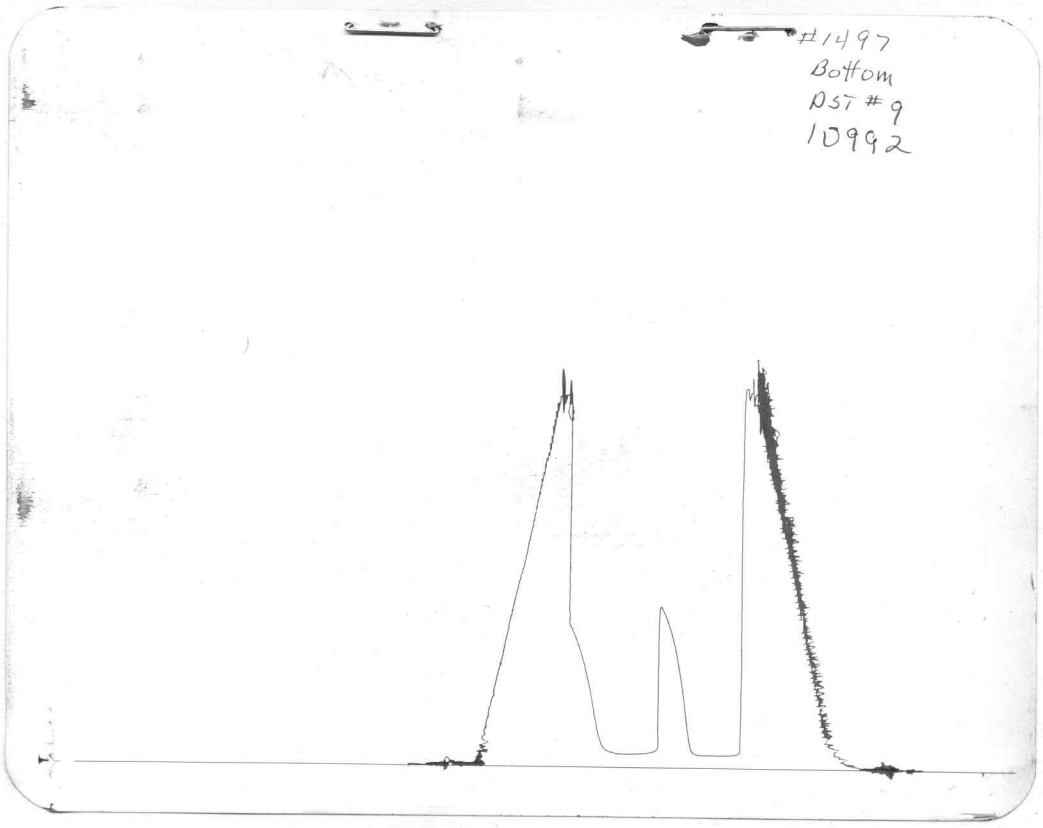
Final Shut-In
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	45		0	45		0	54		0	54
P 2	5	45		5	200		5	54		5	63
P 3	10	45		10	467		10	54		10	91
P 4	15	45		15	663		15	54		15	245
P 5	20	45		20	775		20	54		20	326
P 6	25	45		25	866		25	54		25	590
P 7	30	45		28	887		30	54		30	704
P 8	33	45								35	771
P 9											
P10											
P11											
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,111	2,104	PSI
(B)	First Initial Flow Pressure	43	45	PSI
(C)	First Final Flow Pressure	43	45	PSI
(D)	Initial Closed-in Pressure	887	887	PSI
(E)	Second Initial Flow Pressure	54	54	PSI
(F)	Second Final Flow Pressure	54	54	PSI
(G)	Final Closed-in Pressure	769	771	PSI
(H)	Final Hydrostatic Mud	2,089	2,083	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