TEST REPORT

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

Test Ticket No. 1287

Company Petroleum, Inc. Date 7/01/81
Company Address 300 W. Douglas Suite 800 - Wichit No. of Charts 5
Location: Sec. 16 Twp. 10 Rge. 21 Co. Graham State Kansas
Well Name And Number Grecian C #1 Tester Mitch Dougherty
Contractor DNB Rig No. #2 Co. Rep. John Emerson

Formation Lansing Zone 60 - 90 Type of Test Conventional

DST# 1 Interval 3,505 To 3,545 Total Depth 3,545
Open 15 - 2:30 Shut In 30 - 2:45 Open 10 - 3:15 Shut In 20 - 3:25
Packer(s) Set 2:28 ~~A.M.~~ P.M. Started off Bottom 3:45 ~~A.M.~~ P.M.
Blow 1st Open: Very weak blow died in 5 min. 2nd Open: Never came back.

Recovery
Total Feet 01
Recovered 01 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 _____

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 1,966 Final Hydrostatic Pressure 1,943
Initial Closed In Pressure 184 Final Closed In Pressure 161
Initial Flow Pressure 35 To 35 Final Flow Pressure 35 To 35
Test Area Temperature 114

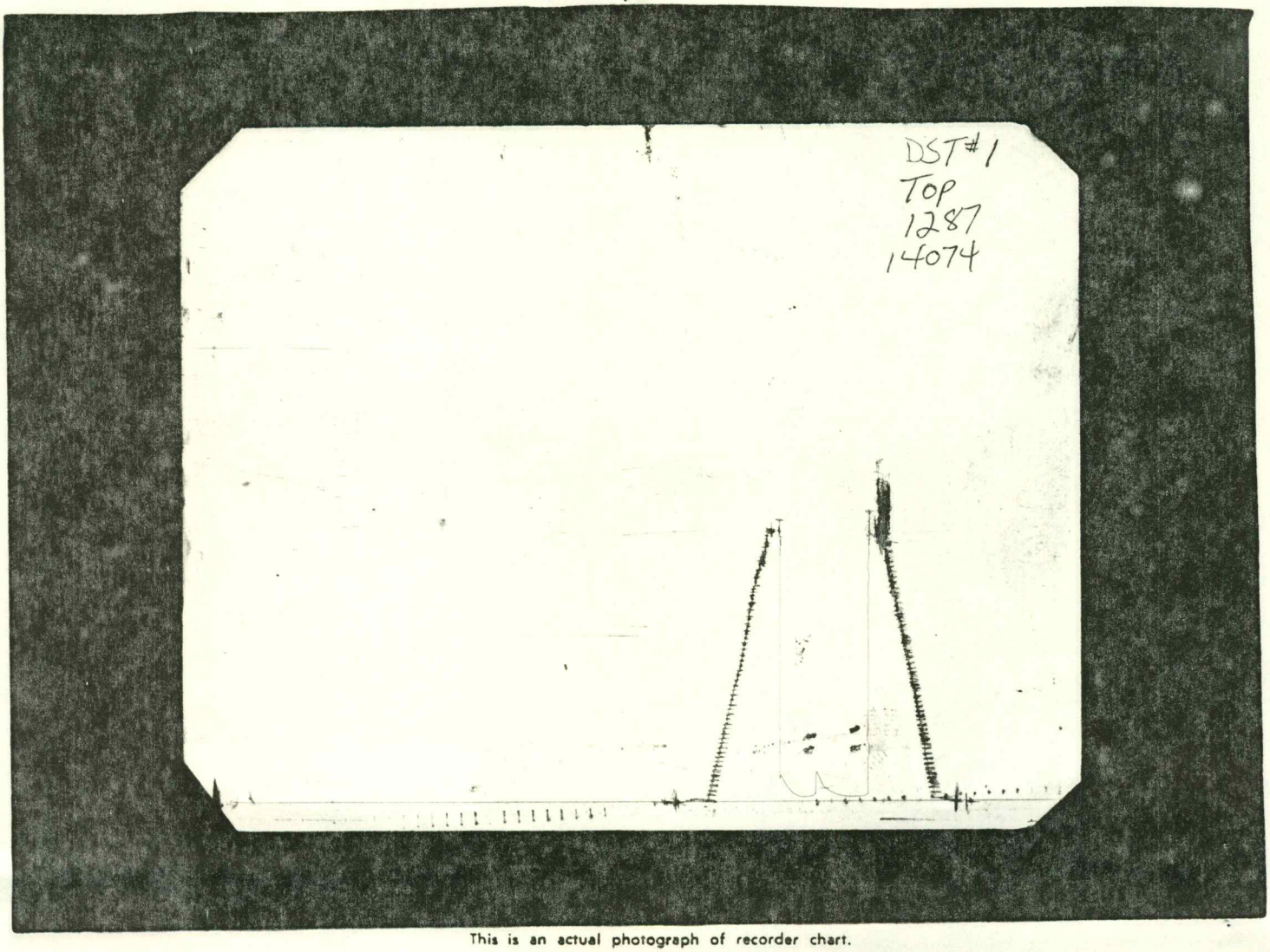
Engineering Date
Elevation 2,175 G. L.
Mud Viscosity 39 Mud Weight 9.6 Water Loss 10.8
Chlorides 29,000 P.P.M. Type of Mud Starch Anchor Length 40
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,503 I.D. 3.8 In. Weight Pipe Length 697 I.D. 2.76 In.
Drill Collar Length 31 I.D. 2.5 In.
Top Packer Depth. 3,500 Bottom Packer Depth. 3,505 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ XH In.
Did Well Flow No Reversed Out _____
Recorder Type and No. Kuster #13251 Clock Range No. #14074 12 Hr.
Recorder Type and No. Kuster #10994 Clock Range No. #22337 12 Hr.
Extra Equipment Jars - $350.00 - Safety Joint- $45.00
Remarks Open Hole Test - $660.00

Thank-you

Price of Job $1,055.00

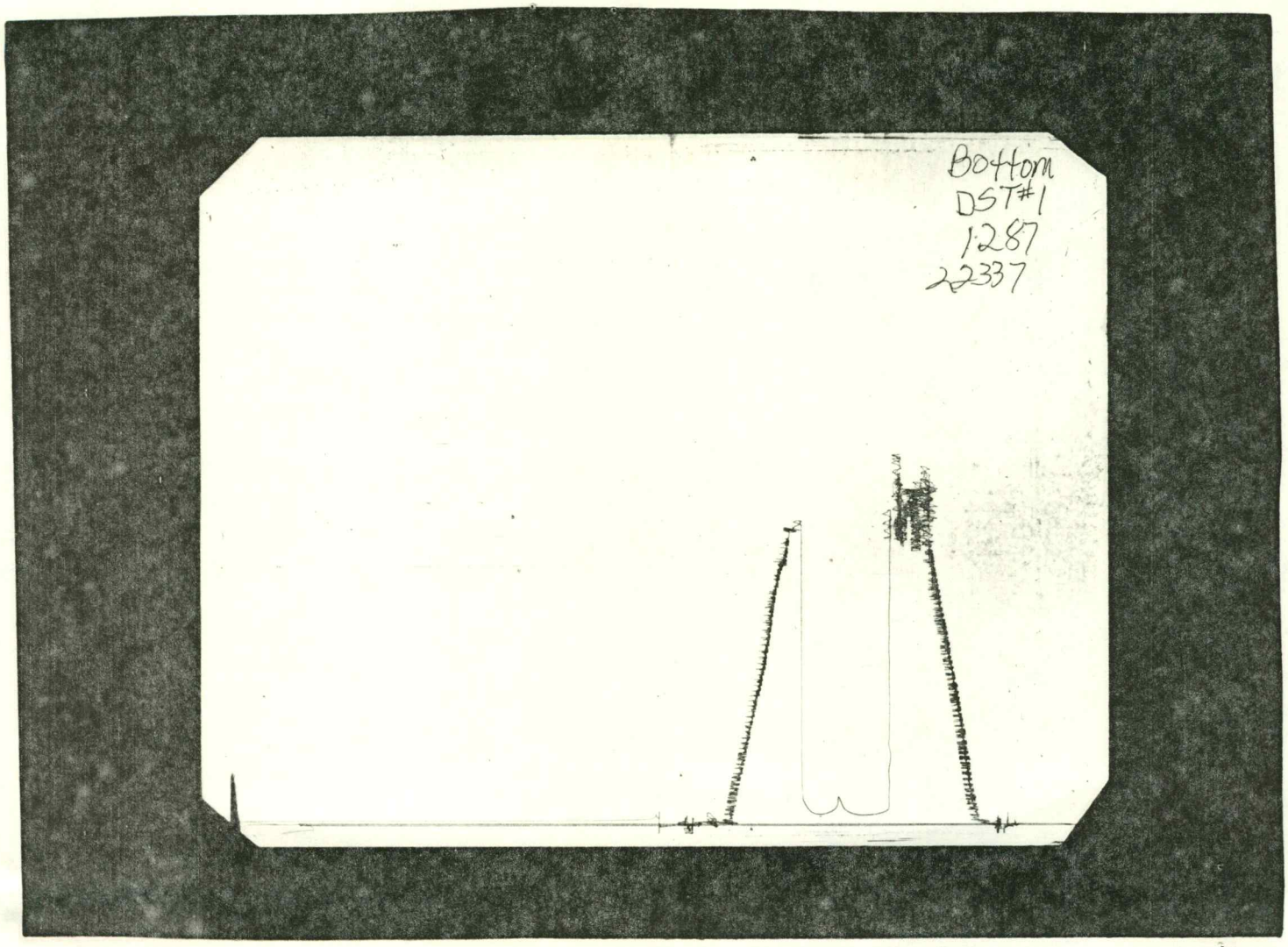
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JUL 24 '81
GREAT BEND
Division Office

16-10S-21W
appx. NW-SE-NW
1650' FNL & 1725' FWL



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,966		PSI
(B)	First Initial Flow Pressure	35		PSI
(C)	First Final Flow Pressure	35		PSI
(D)	Initial Closed-in Pressure	184		PSI
(E)	Second Initial Flow Pressure	35		PSI
(F)	Second Final Flow Pressure	35		PSI
(G)	Final Closed-in Pressure	161		PSI
(H)	Final Hydrostatic Mud	1,943		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

Test Ticket No. 1288

Company Petroleum, Inc. Date 7/02/81
Company Address 300 W. Douglas Suite 800 - Wichit No. of Charts 5
Location: Sec. 16 Twp. 10 Rge. 21 Co. Graham State Kansas
Well Name And Number Grecian C #1 Tester Mitch Dougherty
Contractor DNB Rig No. #2 Co. Rep. John Emerson

Formation Lansing Zone _____ Type of Test Conventional

DST# 2 Interval 3,614 To 3,664 Total Depth 3,664
Open 15 - 8:15 Shut In 30 - 8:30 Open 10 - 9:00 Shut In 20 - 9:10
Packer(s) Set 8:13 ~~AM~~ Started off Bottom 9:30 ~~AM~~
Blow 1st Open: Very weak blow died in 6 min..
2nd Open: Blow never came back.

Recovery
Total Feet 01
Recovered 01 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 _____

Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 2,000 Final Hydrostatic Pressure 1,977
Initial Closed In Pressure 104 Final Closed In Pressure 104
Initial Flow Pressure 35 To 35 Final Flow Pressure 35 To 35
Test Area Temperature 114'

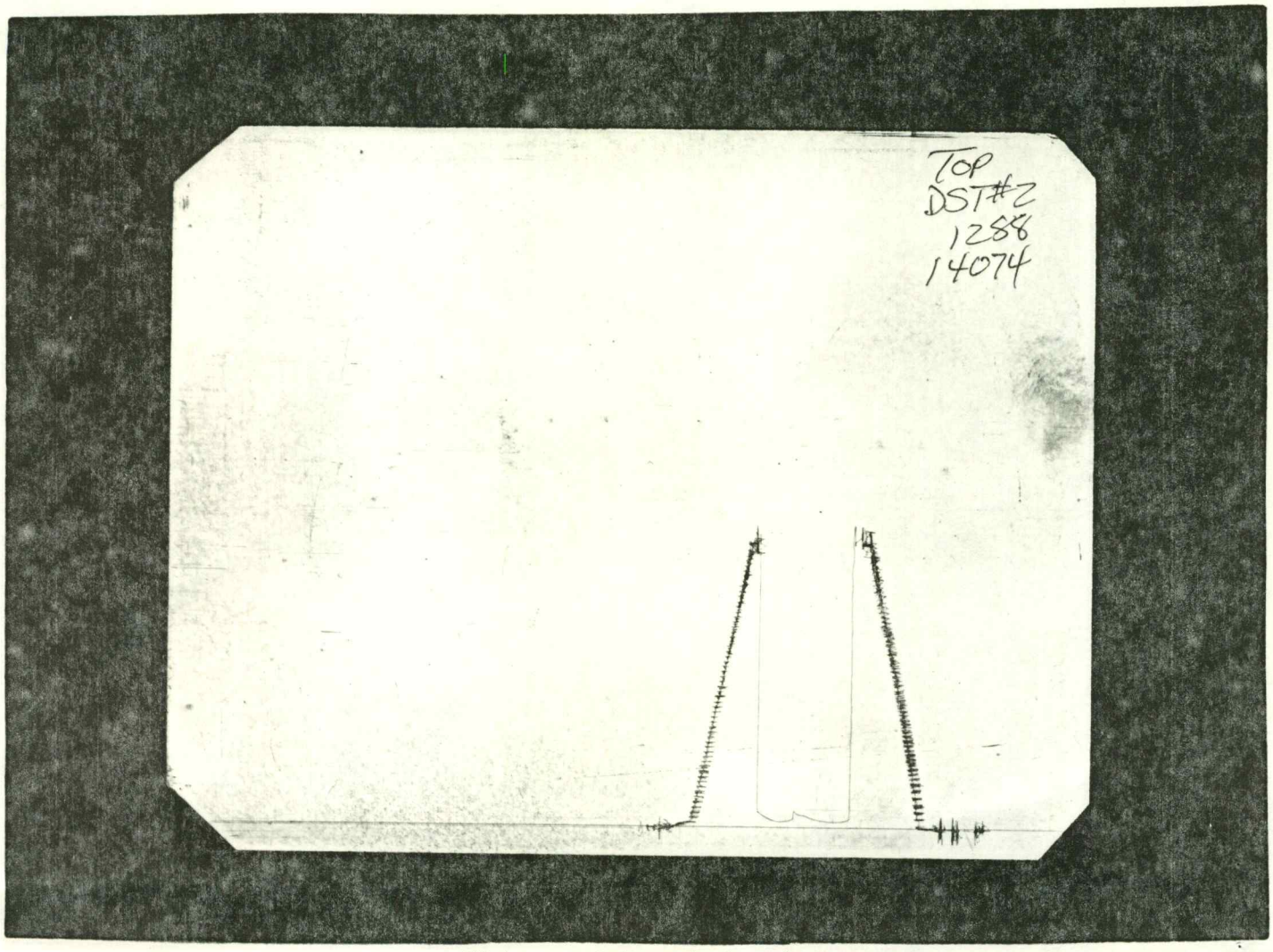
Engineering Date
Elevation 2,175 KB, EL.
Mud Viscosity 39 Mud Weight 9.6 wt. Water Loss 10.8
Chlorides 29,000 P.P.M. Type of Mud Starch Anchor Length 50
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,553 I.D. 3.8 In. Weight Pipe Length 697 I.D. 2.76 In.
Drill Collar Length 31 I.D. 2.5 In.
Top Packer Depth. 3,609 Bottom Packer Depth. 3,614 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ XH In.
Did Well Flow No Reversed Out No
Recorder Type and No. Kuster #13251 Clock Range No. #14074 12 Hr.
Recorder Type and No. Kuster #10994 Clock Range No. #22337 12 Hr.
Extra Equipment Jars $350.00 - Safety joint - $45.00
Remarks Open Hole Test - $660.00

Thank-you

Price of Job $1,055.00

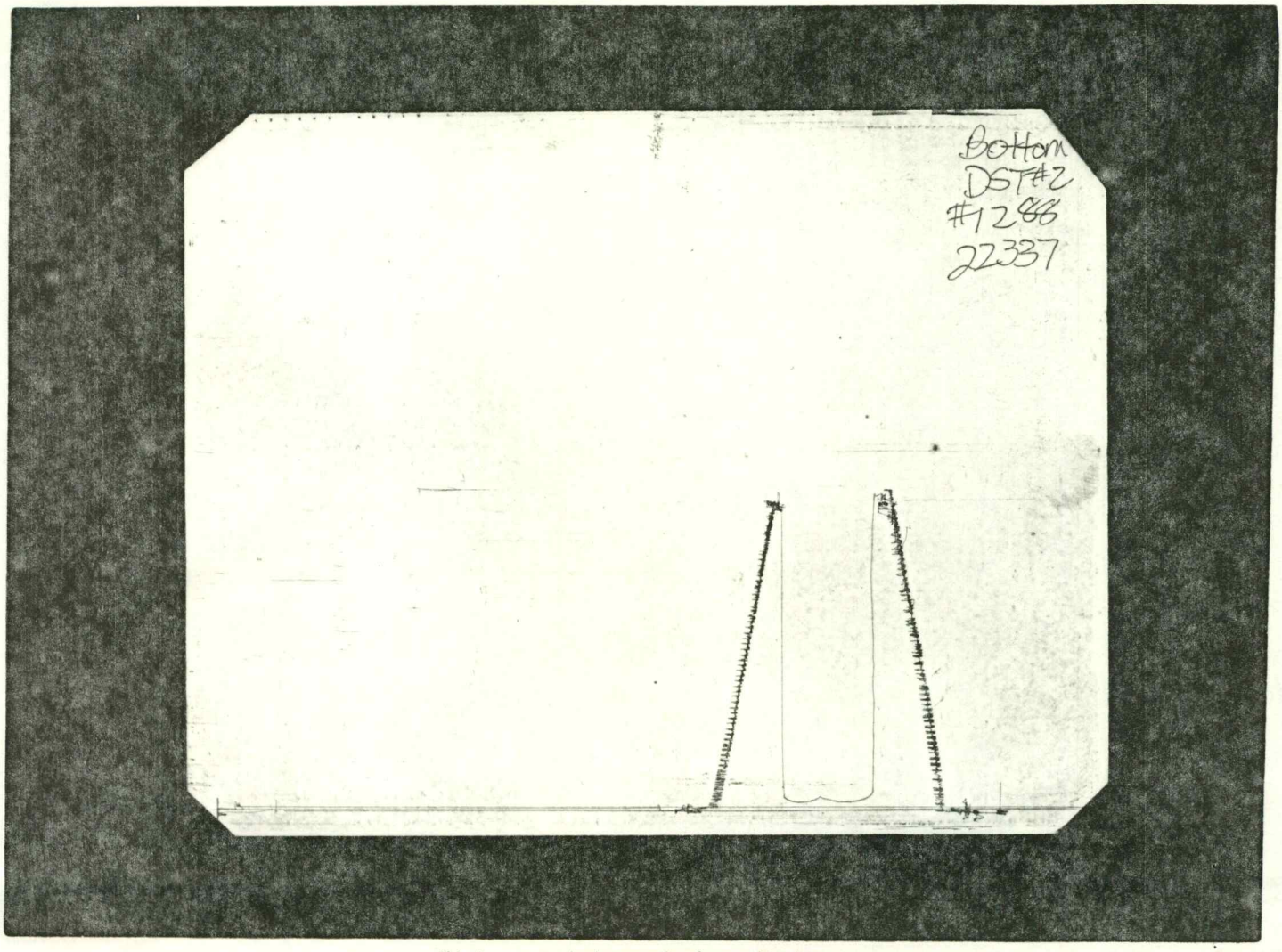
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GREAT BEND
Division Office

16 - 10S - 21W
75' east of C NW-SE-NW
1650' FNL & 1725' FWL



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,000		PSI
(B)	First Initial Flow Pressure	35		PSI
(C)	First Final Flow Pressure	35		PSI
(D)	Initial Closed-in Pressure	104		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	1,977		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. 1289

Company Petroleum, Inc. Date 7/03/81
Company Address 300 W. Douglas Suite 800- Wichita No. of Charts 5
Location: Sec. 16 Twp. 10 Rge. 21 Co. Graham State Kansas
Well Name And Number Grecian C #1 Tester Mitch Dougherty
Contractor DNB Rig No. #2 Co. Rep. John Emerson

Formation Arbuckle Zone _____ Type of Test Conventional

DST# 3 Interval 3,747 To 3,793 Total Depth 3,793
Open 15 - 10:45 Shut In 30 - 11:00 Open 60 - 11:30 Shut In 120 - 12:30
Packer(s) Set 10:43 ~~A.M.~~ ~~P.M.~~ Started off Bottom 2:30 ~~A.M.~~ ~~P.M.~~
Blow 1st Open: Blew off bottom of bucket in 1 min.
2nd Open: Blew off bottom of bucket in 1 min.

Recovery
Total Feet 2,562
Recovered 2,562 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 _____

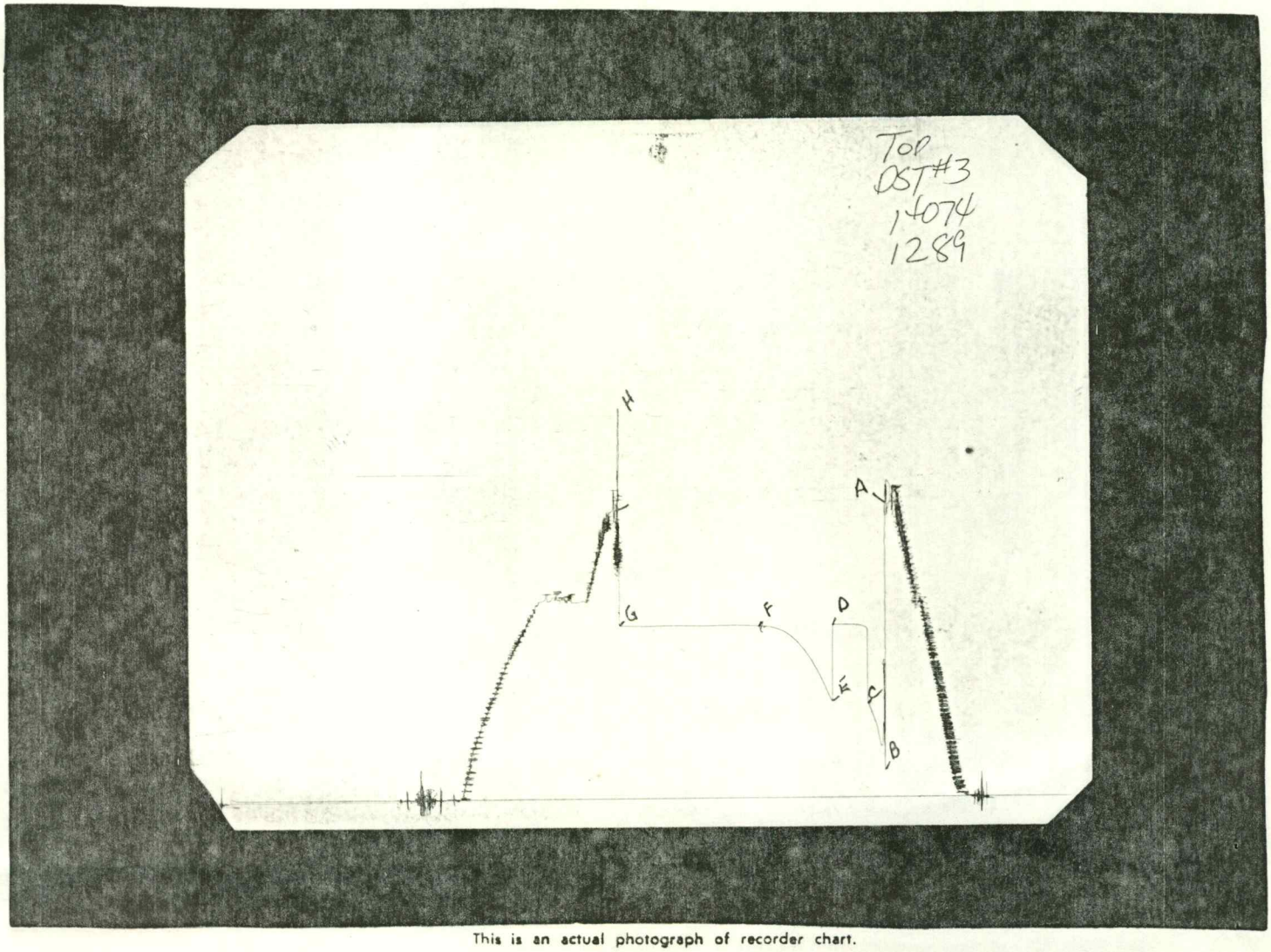
Pressures & Temp. (Office Reading If Applicable)
Initial Hydrostatic Pressure 2,136 Final Hydrostatic Pressure 2,113
Initial Closed In Pressure 1,374 Final Closed In Pressure 1,374
Initial Flow Pressure 367 To 610 Final Flow Pressure 690 To 1,374
Test Area Temperature 118

Engineering Date
Elevation 2,175 G. L.
Mud Viscosity 43 Mud Weight 9.8 Water Loss 12.6
Chlorides 28,000 P.P.M. Type of Mud Starch Anchor Length 46
Hole Size 7 7/8 Casing Size 8 5/8 Surface Choke 3/4 Bottom Choke 3/4
Drill Pipe Length 2,682 I.D. 3.8 In. Weight Pipe Length 697 I.D. 2.76 In.
Drill Collar Length 31 I.D. 2.5 In.
Top Packer Depth. 3,742 Bottom Packer Depth. 3,747 Packer Size 6 3/4
Test Tool Size 5½ In. Tool Joint Size 4½ XH In.
Did Well Flow No Reversed Out Yes
Recorder Type and No. Kuster #13251 Clock Range No. #14074 12 Hr.
Recorder Type and No. Kuster #10994 Clock Range No. #22337 12 Hr.
Extra Equipment Jars $350.00 - Safety Joint - $45.00 - Dropped Bar -
Remarks $30.00
Open Hole Test - $660.00

Thank-you Price of Job $1,085.00

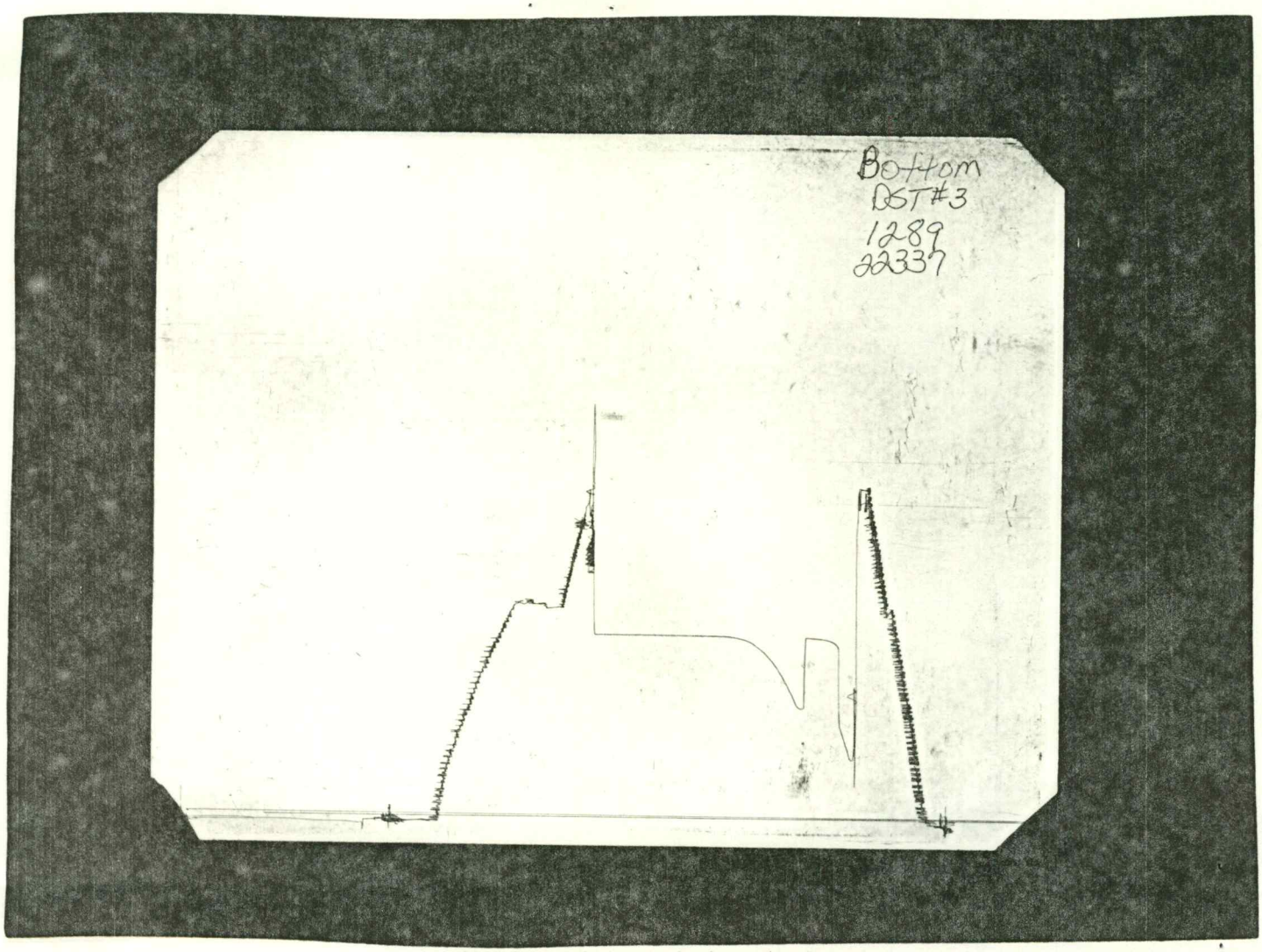
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JUL 24 '81
GREAT BEND
Division Office

75' East of C NW-SE-NW
1650' FNL & 1735' FWL



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,136	1,998	PSI
(B)	First Initial Flow Pressure	367	347	PSI
(C)	First Final Flow Pressure	610	643	PSI
(D)	Initial Closed-in Pressure	1,374	1,179	PSI
(E)	Second Initial Flow Pressure	690	656	PSI
(F)	Second Final Flow Pressure	1,374	1,176	PSI
(G)	Final Closed-in Pressure	1,374	1,184	PSI
(H)	Final Hydrostatic Mud	2,113	1,961	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 7/03/81 Test Ticket No. 1289

Recorder No. Kuster AK-1 #13251 Capacity 4,550 PSI Location 3,783 Ft.

Clock No. #14074 Elevation 2,175 G. L. Well Temperature 118 °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	1,998	P.S.I.	Open Tool	10:45 AM	
B First Initial Flow Pressure	347	P.S.I.	First Flow Pressure	15 Mins.	Mins.
C First Final Flow Pressure	643	P.S.I.	Initial Closed-in Pressure	30 Mins.	Mins.
D Initial Closed-in Pressure	1,179	P.S.I.	Second Flow Pressure	60 Mins.	Mins.
E Second Initial Flow Pressure	656	P.S.I.	Final Closed-in Pressure	120 Mins.	Mins.
F Second Final Flow Pressure	1,176	P.S.I.			
G Final Closed-in Pressure	1,184	P.S.I.			
H Final Hydrostatic Mud	1,961	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 00	347
P 2 03	354
P 3 06	479
P 4 09	550
P 5 12	610
P 6 15	643
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
00	643
03	1,167
06	1,173
09	1,176
12	1,179
15	1,179
18	1,179
21	1,179
24	1,179
27	1,179
30	1,179

Second Flow Pressure
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
00	656
03	701
06	756
09	808
12	858
15	900
18	942
21	979
24	1,013
27	1,043
30	1,069
33	1,092
36	1,112
39	1,128
42	1,143
45	1,152
48	1,162
51	1,168
54	1,172
57	1,175
60	1,176

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
00	1,176
03	1,178
06	1,179
09	1,180
12	1,181
15	1,181
18	1,182
21	1,182
24	1,182
27	1,182
30	1,182
33	1,182
36	1,182
39	1,182
42	1,182
45	1,182
48	1,182
51	1,182
54	1,182
57	1,182
60	1,183

CRUDE OIL TESTING COMPANY

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

Date _____ Test Ticket No. 1289

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Field Time	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ 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						63	1,183
P 2						66	1,183
P 3						69	1,183
P 4						72	1,183
P 5						75	1,183
P 6						78	1,183
P 7						81	1,183
P 8						84	1,183
P 9						87	1,183
P10						90	1,183
P11						93	1,183
P12						96	1,183
P13						99	1,183
P14						102	1,183
P15						105	1,183
P16						108	1,183
P17						111	1,184
P18						114	1,184
P19						117	1,184
P20						120	1,184

DRILL STEM TEST RECOVERY ANALYSIS

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

COMPANY: Petroleum, Inc. LEASE: Grecian C #1 DST# 3
SEC: 16 Twp: 10 Rge: 21 COUNTY: Graham STATE: Kansas

VISUAL DST RECOVERY: 2,562' Muddy salt water.

CENTIFUDGE PERCENTAGE ANALYSIS

Sample #	Feet of FLUID	Percent of GAS	Percent of OIL	Percent of WATER	Percent of MUD
1	60			30	70
2	60			30	70
3	60			30	70

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		×	60	=			×	60	=		30	×	60	=	18	70	×	60	=	42
2	60		×	60	=			×	60	=		30	×	60	=	18	70	×	60	=	42
3	60		×	60	=			×	60	=		30	×	60	=	18	70	×	60	=	42
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
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			×		=			×		=			×		=			×		=	
			×		=			×		=			×		=			×		=	
Totals																54					126

CALCULATED DST RECOVERY =

CHLORIDES MUD SYSTEM
CHLORIDES DST WATER
GRAVITY OF OIL

GAS
OIL
WTR 54
MUD 126
TOTAL FLUID 180